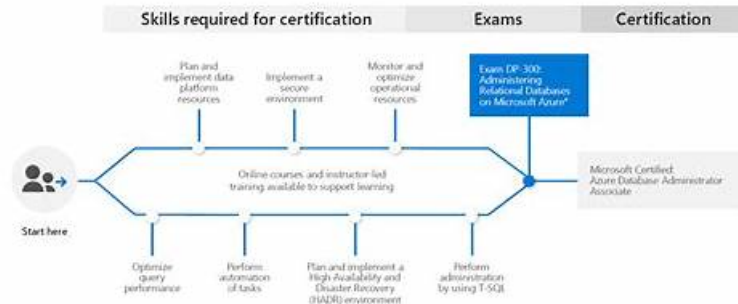


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Learning path for Azure Database Administrator Associate



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Leading Facts about Actual Exam: Cost, Duration, Question Types, and Passing Score

The Microsoft DP-300 exam costs \$165 and is available in the English, Korean, Simplified Chinese, and Japanese languages. Additionally, the exam duration is 130 minutes if there are no labs and 150 if there are some. As far as the exam format is concerned, there will be MCQ, drag and drop, and best answer questions among the rest. Furthermore, there will also be 40-60 items for every candidate, and you must score 700 points out of 1000 to get a minimum passing score.

Microsoft DP-300 is a certification exam designed for database administrators who want to demonstrate their expertise in administering relational databases on Microsoft Azure. DP-300 exam focuses on various aspects such as deploying and configuring infrastructure, designing databases, monitoring and optimizing databases, and securing databases. It is aimed at professionals who are responsible for managing and maintaining database solutions on the Azure platform.

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The DP-300 Certification is ideal for database administrators, database developers, and data engineers who want to demonstrate their expertise in managing and maintaining relational databases on the Azure platform. Administering Relational Databases on Microsoft Azure certification validates the candidate's ability to manage and secure database environments, troubleshoot common issues, and optimize database performance for maximum efficiency. It is also a great way to showcase your skills and expertise to potential employers and advance your career in the field of database management.

Microsoft Administering Relational Databases on Microsoft Azure Sample


Questions (Q39-Q44):

NEW QUESTION # 39

You have an Azure SQL database that contains a table named Employees. Employees contains a column named Salary. You need to encrypt the Salary column. The solution must prevent database administrators from reading the data in the Salary column and must provide the most secure encryption.

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


Encrypt the Salary column by using the randomized encryption type.

Create a column encryption key.

Enable Transparent Data Encryption (TDE).

Encrypt the Salary column by using the deterministic encryption type.

Apply a dynamic data mask to the Salary column.

Create a column master key.

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Answer:

Explanation:

Actions

Answer Area


Encrypt the Salary column by using the randomized encryption type.

Create a column encryption key.

Enable Transparent Data Encryption (TDE).

Encrypt the Salary column by using the deterministic encryption type.

Apply a dynamic data mask to the Salary column.

Create a column master key.

Create a column master key.

Create a column encryption key.

Encrypt the Salary column by using the randomized encryption type.

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Explanation:



Create a column master key.

Create a column encryption key.

Encrypt the Salary column by using the randomized encryption type.

Step 1: Create a column master key

Create a column master key metadata entry before you create a column encryption key metadata entry in the database and before any column in the database can be encrypted using Always Encrypted.

Step 2: Create a column encryption key.

Step 3: Encrypt the Salary column by using the randomized encryption type.

Randomized encryption uses a method that encrypts data in a less predictable manner. Randomized encryption is more secure, but prevents searching, grouping, indexing, and joining on encrypted columns.

Note: A column encryption key metadata object contains one or two encrypted values of a column encryption key that is used to encrypt data in a column. Each value is encrypted using a column master key.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/always-encrypted-database-engine>

NEW QUESTION # 40

You have the following Azure Resource Manager template.

```
...
  "variable": {
    "serverName": "azsqlserver0001"
  },
  "resources": [
    {
      "name": "[variables('serverName')]",
      "type": "Microsoft.Sql/servers",
      "apiVersion": "2019-06-01-preview",
      "location": "[parameters('location')]",
      "properties": {
        "administratorLogin": "[parameters('administratorLogin')]",
        "administratorLoginPassword": "[parameters('administratorLoginPassword')]",
        "version": "12.0"
      },
    },
    {
      "name": "[concat(variables('serverName'), '/', parameters('databaseName'))]",
      "type": "Microsoft.Sql/servers/databases",
      "apiVersion": "2020-08-01-preview",
      "location": "[parameters('location')]",
      "kind": "v12.0",
      "sku": {
        "name": "Standard",
        "tier": "Standard",
        "capacity": 10
      },
      "dependsOn": [
        "[concat('Microsoft.Sql/servers/', variables('serverName'))]"
      ],
      "properties": {
      },
      "resources": [
      ]
    }
  ]
}
],
}
...
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Statements	Yes	No
The template deploys a serverless Azure SQL database.	<input type="radio"/>	<input type="radio"/>
The template deploys a database to an Azure SQL Database managed instance.	<input type="radio"/>	<input type="radio"/>
The pricing tier of the database deployment is based on DTUs.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
The template deploys a serverless Azure SQL database.	<input type="radio"/>	<input checked="" type="radio"/>
The template deploys a database to an Azure SQL Database managed instance.	<input type="radio"/>	<input checked="" type="radio"/>
The pricing tier of the database deployment is based on DTUs.	<input checked="" type="radio"/>	<input type="radio"/>

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/purchasing-models>

<https://docs.microsoft.com/en-us/azure/azure-sql/database/single-database-create-arm-template-quickstart>

NEW QUESTION # 41

You need to implement a solution to notify the administrators. The solution must meet the monitoring requirements. What should you do?

- A. Create an Azure Monitor alert rule that has a static threshold and assign the alert rule to an action group.
- **B. Create an Azure Monitor alert rule that has a dynamic threshold and assign the alert rule to an action group.**
- C. Add a diagnostic setting that logs QueryStoreRuntimeStatistics and streams to an Azure event hub.
- D. Add a diagnostic setting that logs Timeouts and streams to an Azure event hub.

Answer: B

Explanation:

Reference:

<https://azure.microsoft.com/en-gb/blog/announcing-azure-monitor-aiops-alerts-with-dynamic-thresholds/> This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

Topic 3, ADatum Corporation

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

ADatum Corporation is a retailer that sells products through two sales channels: retail stores and a website.

Existing Environment

ADatum has one database server that has Microsoft SQL Server 2016 installed. The server hosts three mission-critical databases named SALESDB, DOCDB, and REPORTINGDB.

SALESDB collects data from the stores and the website.

DOCDB stores documents that connect to the sales data in SALESDB. The documents are stored in two different JSON formats based on the sales channel.

REPORTINGDB stores reporting data and contains several columnstore indexes. A daily process creates reporting data in REPORTINGDB from the data in SALESDB. The process is implemented as a SQL Server Integration Services (SSIS) package that runs a stored procedure from SALESDB.

Requirements

Planned Changes

ADatum plans to move the current data infrastructure to Azure. The new infrastructure has the following requirements:
Migrate SALESDB and REPORTINGDB to an Azure SQL database.
Migrate DOCDB to Azure Cosmos DB.

The sales data, including the documents in JSON format, must be gathered as it arrives and analyzed online by using Azure Stream Analytics. The analytics process will perform aggregations that must be done continuously, without gaps, and without overlapping. As they arrive, all the sales documents in JSON format must be transformed into one consistent format.

Azure Data Factory will replace the SSIS process of copying the data from SALESDB to REPORTINGDB.

Technical Requirements

The new Azure data infrastructure must meet the following technical requirements:

Data in SALESDB must be encrypted by using Transparent Data Encryption (TDE). The encryption must use your own key.

SALESDB must be restorable to any given minute within the past three weeks.

Real-time processing must be monitored to ensure that workloads are sized properly based on actual usage patterns.

Missing indexes must be created automatically for REPORTINGDB.

Disk IO, CPU, and memory usage must be monitored for SALESDB.

NEW QUESTION # 42

You are designing a streaming data solution that will ingest variable volumes of data.

You need to ensure that you can change the partition count after creation.

Which service should you use to ingest the data?

- A. Azure Stream Analytics
- B. Azure Data Factory
- C. Azure Event Hubs Standard
- **D. Azure Event Hubs Dedicated**

Answer: D

Explanation:

Explanation

The partition count for an event hub in a dedicated Event Hubs cluster can be increased after the event hub has been created.

Reference:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-features#partitions>

NEW QUESTION # 43

You have An Azure SQL managed instance.

You need to configure the SQL Server Agent service to email job notifications.

Which statement should you execute?

- A. 
- B. 
- C. 
- D. 

Answer: C

Explanation:

Basic Concept: This question tests task automation for database administration, including which Azure or SQL mechanism can run repeatable maintenance and configuration work.

Why B is Correct: Option B is correct because it is the feature whose normal purpose matches the stated requirement. Option B is an Azure data-platform feature, but it must match the workload model, service tier, migration path, or deployment constraint described in the scenario. The scenario wording points to that specific behavior: You need to configure the SQL Server Agent service to email job notifications.

Why A is Wrong: Option A is an Azure data-platform feature, but it must match the workload model, service tier, migration path, or deployment constraint described in the scenario. It applies to a different Azure data- platform design than the one the question is testing.

Why C is Wrong: Option C is an Azure data-platform feature, but it must match the workload model, service tier, migration path, or deployment constraint described in the scenario. It mismatches the target platform, migration method, compute tier, or deployment

model described in the scenario, so it would not satisfy the workload as stated.

Why D is Wrong: Option D is an Azure data-platform feature, but it must match the workload model, service tier, migration path, or deployment constraint described in the scenario. It applies to a different Azure data- platform design than the one the question is testing.

NEW QUESTION # 44

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