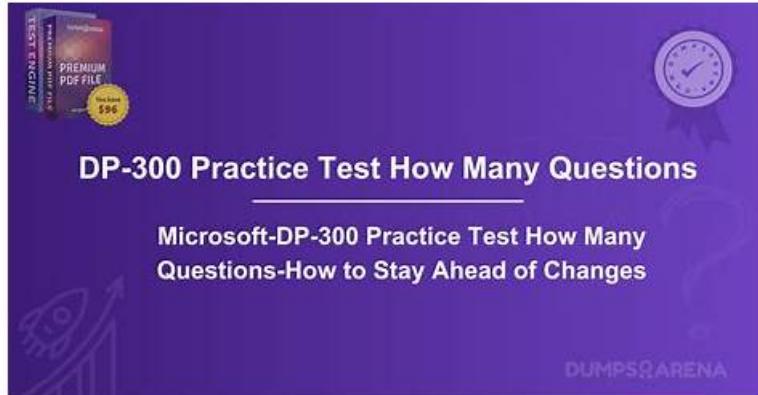


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Skills measured

- Plan and implement a High Availability and Disaster Recovery (HADR) environment (15-20%)

- Plan and implement data platform resources (15-20%)
- Optimize query performance (5-10%)
- Monitor and optimize operational resources (15-20%)

>> Test DP-300 Preparation <<

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Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q282-Q287):

NEW QUESTION # 282

You have an on-premises Microsoft SQL Server 2019 instance that hosts a database named DB1.

You plan to perform an online migration of DB1 to an Azure SQL managed instance by using the Azure Database Migration Service.

You need to create a backup of DB1 that is accessible to the Azure Database Migration Service.

What should you run for the backup and where should you store the backup? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Run:

- | |
|--|
| A full backup and a log backup appended to the same file by using the WITH CHECKSUM option |
| A full backup and a log backup to separate files by using the WITH CHECKSUM option |
| A full backup and a log backup to separate files by using the WITH FILE_SNAPSHOT option |

Store the backup in:

- | |
|-------------------------------|
| A Recovery Services vault |
| An Azure Blob storage account |
| An SMB file share |

Answer:

Explanation:

Run:

- | |
|--|
| A full backup and a log backup appended to the same file by using the WITH CHECKSUM option |
| A full backup and a log backup to separate files by using the WITH CHECKSUM option |
| A full backup and a log backup to separate files by using the WITH FILE_SNAPSHOT option |

Store the backup in:

- | |
|-------------------------------|
| A Recovery Services vault |
| An Azure Blob storage account |
| An SMB file share |

Explanation:

Run:

- A full backup and a log backup appended to the same file by using the WITH CHECKSUM option
- A full backup and a log backup to separate files by using the WITH CHECKSUM option
- A full backup and a log backup to separate files by using the WITH FILE_SNAPSHOT option

Store the backup in:

- A Recovery Services vault
- An Azure Blob storage account
- An SMB file share

Reference:

<https://docs.microsoft.com/en-us/azure/dms/tutorial-sql-server-managed-instance-online>

NEW QUESTION # 283

You have a resource group named App1Dev that contains an Azure SQL Database server named DevServer1. DevServer1 contains an Azure SQL database named DB1. The schema and permissions for DB1 are saved in a Microsoft SQL Server Data Tools (SSDT) database project.

You need to populate a new resource group named App1Test with the DB1 database and an Azure SQL Server named TestServer1. The resources in App1Test must have the same configurations as the resources in App1Dev.

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 | Answer Area |
|---|---|
| Change the Active Directory Admin on TestServer1 | |
| Change the server name and related variables in the templates | |
| From the database project, deploy the database schema and permissions |   |
| Add IP addresses to the firewall | |
| From the Azure portal, export the Azure Resource Manager templates | |
| From the Azure portal, deploy the templates. |   |

Answer:

Explanation:

| Actions | Answer Area |
|---|---|
| Change the Active Directory Admin on TestServer1 | From the Azure portal, export the Azure Resource Manager templates |
| Change the server name and related variables in the templates | Change the server name and related variables in the templates |
| From the database project, deploy the database schema and permissions |  From the Azure portal, deploy the templates. |
| Add IP addresses to the firewall |  From the database project, deploy the database schema and permissions |
| From the Azure portal, export the Azure Resource Manager templates | |
| From the Azure portal, deploy the templates. | |

NEW QUESTION # 284

You are building an Azure virtual machine.

You allocate two 1-TiB, P30 premium storage disks to the virtual machine. Each disk provides 5,000 IOPS.

You plan to migrate an on-premises instance of Microsoft SQL Server to the virtual machine. The instance has a database that contains a 1.2-TiB data file. The database requires 10,000 IOPS.

You need to configure storage for the virtual machine to support the database.

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

Answer:

Explanation:

Explanation

Follow these same steps to create striped virtual disk:

Create Log Storage Pool.

Create Virtual Disk

Create Volume

Box 1: a storage pool

Box 2: a virtual disk that uses stripe layout

Disk Striping: Use multiple disks and stripe them together to get a combined higher IOPS and Throughput limit. The combined limit per VM should be higher than the combined limits of attached premium disks.

Box 3: a volume

Reference:

<https://hanu.com/hanu-how-to-striping-of-disks-for-azure-sql-server/>

NEW QUESTION # 285

You have an Azure SQL database.

You discover that the plan cache is full of compiled plans that were used only once.

You run the select * from sys.database_scoped_configurations Transact-SQL command and receive the results shown in the following table.

You need relieve the memory pressure.

What should you configure?

- A. LEGACY_CARDINALITY_ESTIMATION
- B. OPTIMIZE_FOR_AD_HOC_WORKLOADS
- C. ACCELERATED_PLAN_FORCING
- D. QUERY_OPTIMIZER_HOTFIXES

Answer: B

Explanation:

OPTIMIZE_FOR_AD_HOC_WORKLOADS = { ON | OFF }

Enables or disables a compiled plan stub to be stored in cache when a batch is compiled for the first time. The default is OFF. Once the database scoped configuration OPTIMIZE_FOR_AD_HOC_WORKLOADS is enabled for a database, a compiled plan stub will be stored in cache when a batch is compiled for the first time. Plan stubs have a smaller memory footprint compared to the size of the full compiled plan.

Incorrect Answers:

A: LEGACY_CARDINALITY_ESTIMATION = { ON | OFF | PRIMARY }

Enables you to set the query optimizer cardinality estimation model to the SQL Server 2012 and earlier version independent of the compatibility level of the database. The default is OFF, which sets the query optimizer cardinality estimation model based on the compatibility level of the database.

B: QUERY_OPTIMIZER_HOTFIXES = { ON | OFF | PRIMARY }

Enables or disables query optimization hotfixes regardless of the compatibility level of the database. The default is OFF, which disables query optimization hotfixes that were released after the highest available compatibility level was introduced for a specific version (post-RTM).

Reference:

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

NEW QUESTION # 286

You need to implement a solution to notify the administrators. The solution must meet the monitoring requirements.

What should you do?

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

Answer: B

Explanation:

Reference:

<https://azure.microsoft.com/en-gb/blog/announcing-azure-monitor-aiops-alerts-with-dynamic-thresholds/>

Topic 3, ADatum Corporation

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.

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 # 287

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