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Microsoft DP-300 Administering Microsoft Azure SQL Solutions

Questions & Answers PDF
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Configure Query Performance: 5-10%

- Review Index Design & Database Table: The skills covered in this topic include evaluating index design for performance, table partitioning strategy, and compression for indexes and table usage.
- Review Query Plans: The test takers should be able to establish the problem areas within execution plans and determine the relevant execution plan type.
- Assess Performance Improvement: The competence required in this domain includes identifying performance concerns with DMVs and evaluating the utilization of hints regarding query performance.

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Once you ensure your grasp on the DP-300 questions and answers, evaluate your learning solving the DP-300 practice tests provided by our testing engine. This innovative facility provides you a number of practice questions and answers and highlights the weak points in your learning. You can improve the weak areas before taking the actual test and thus brighten your chances of passing the DP-300 Exam with an excellent score. Moreover, doing these practice tests will impart you knowledge of the actual DP-300 exam format and develop your command over it.

Passing the DP-300 exam requires a deep understanding of Azure SQL databases and the ability to perform various administrative tasks. The Microsoft Certified: Azure Database Administrator Associate certification is highly valued in the industry and can help professionals advance their careers in database administration. Overall, the DP-300 exam is an excellent opportunity for professionals to validate their skills and knowledge in administering relational databases on Microsoft Azure.

Microsoft DP-300 exam is a valuable certification for database administrators who want to enhance their skills in administering relational databases on Azure. Administering Relational Databases on Microsoft Azure certification provides a competitive edge in the job market and demonstrates your expertise in cloud-based database solutions. As the demand for cloud-based database solutions continues to grow, the Microsoft DP-300 Certification is becoming increasingly essential for professionals in the field of database administration.

Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q324-Q329):

NEW QUESTION # 324

You are designing an enterprise data warehouse in Azure Synapse Analytics that will store website traffic analytics in a star schema. You plan to have a fact table for website visits. The table will be approximately 5 GB.

You need to recommend which distribution type and index type to use for the table. The solution must provide the fastest query performance.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Distribution:

	▼
Hash	
Round robin	
Replicated	

Index:

	▼
Clustered columnstore	
Clustered	
Nonclustered	

Answer:

Explanation:

Distribution: ▼

- Hash
- Round robin
- Replicated

Index: ▼

- Clustered columnstore
- Clustered
- Nonclustered

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribute>

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-index>

NEW QUESTION # 325

You have an Azure SQL Database instance named DatabaseA on a server named Server1.

You plan to add a new user named App1 to DatabaseA and grant App1 db_datacenter permissions. App1 will use SQL Server Authentication.

You need to create App1. The solution must ensure that App1 can be given access to other databases by using the same credentials.

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
On the master database, run <code>CREATE LOGIN [App1] FROM EXTERNAL PROVIDER;</code>	⬆ ⬇ ⬆ ⬇
On DatabaseA, run <code>CREATE USER [App1] WITH PASSWORD = 'P@ssW0rd!';</code>	
On DatabaseA, run <code>ALTER ROLE db_datareader ADD MEMBER [App1];</code>	
On the master database, run <code>CREATE LOGIN [App1] WITH PASSWORD = 'P@aaW0rd!';</code>	
On DatabaseA, run <code>CREATE USER [App1] FROM LOGIN [App1];</code>	

Answer:

Explanation:

Actions

On the master database, run `CREATE LOGIN [APP1] FROM EXTERNAL PROVIDER;`

On DatabaseA, run `CREATE USER [APP1] WITH PASSWORD = 'P@ssW0rd!';`

On DatabaseA, run `ALTER ROLE db_datareader ADD MEMBER [App1];`

On the master database, run `CREATE LOGIN [App1] WITH PASSWORD = 'P@aaW0rd!';`

On DatabaseA, run `CREATE USER [App1] FROM LOGIN [App1];`

Answer Area

On the master database, run `CREATE LOGIN [App1] WITH PASSWORD = 'P@aaW0rd!';`

On DatabaseA, run `CREATE USER [App1] FROM LOGIN [App1];`

On DatabaseA, run `ALTER ROLE db_datareader ADD MEMBER [App1];`

Explanation:

On the master database, run `CREATE LOGIN [App1] WITH PASSWORD = 'P@aaW0rd!';`

On DatabaseA, run `CREATE USER [App1] FROM LOGIN [App1];`

On DatabaseA, run `ALTER ROLE db_datareader ADD MEMBER [App1];`

Step 1: On the master database, run `CREATE LOGIN [App1] WITH PASSWORD = 'p@aaW0rd!'` Logins are server wide login and password pairs, where the login has the same password across all databases.

Here is some sample Transact-SQL that creates a login:

```
CREATE LOGIN readonlylogin WITH password='1231!#ASDF!a';
```

You must be connected to the master database on SQL Azure with the administrative login (which you get from the SQL Azure portal) to execute the `CREATE LOGIN` command.

Step 2: On DatabaseA, run `CREATE USER [App1] FROM LOGIN [App1]`

Users are created per database and are associated with logins. You must be connected to the database in where you want to create the user. In most cases, this is not the master database. Here is some sample Transact-SQL that creates a user:

```
CREATE USER readonlyuser FROM LOGIN readonlylogin;
```

Step 3: On DatabaseA run `ALTER ROLE db_datareader ADD Member [App1]`

Just creating the user does not give them permissions to the database. You have to grant them access. In the Transact-SQL example below the `readonlyuser` is given read only permissions to the database via the `db_datareader` role.

```
EXEC sp_addrolemember 'db_datareader', 'readonlyuser';
```

Reference:

<https://azure.microsoft.com/en-us/blog/adding-users-to-your-sql-azure-database/>

NEW QUESTION # 326

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 static 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 dynamic threshold and assign the alert rule to an action group.

Answer: D

Explanation:

Reference:

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

Topic 1, Contoso LtdCase study

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

Existing Environment

Contoso, Ltd. is a financial data company that has 100 employees. The company delivers financial data to customers.

Active Directory

Contoso has a hybrid Azure Active Directory (Azure AD) deployment that syncs to on-premises Active Directory.

Database Environment

Contoso has SQL Server 2017 on Azure virtual machines shown in the following table.

Name	Role
SQL1	Primary data warehouse
SQL2	Secondary data warehouse
SQL3	Extract, transform, and load (ETL) server

SQL1 and SQL2 are in an Always On availability group and are actively queried. SQL3 runs jobs, provides historical data, and handles the delivery of data to customers.

The on-premises datacenter contains a PostgreSQL server that has a 50-TB database.

Current Business Model

Contoso uses Microsoft SQL Server Integration Services (SSIS) to create flat files for customers. The customers receive the files by using FTP.

Requirements

Planned Changes

Contoso plans to move to a model in which they deliver data to customer databases that run as platform as a service (PaaS) offerings. When a customer establishes a service agreement with Contoso, a separate resource group that contains an Azure SQL database will be provisioned for the customer. The database will have a complete copy of the financial data. The data to which each customer will have access will depend on the service agreement tier. The customers can change tiers by changing their service agreement.

The estimated size of each PaaS database is 1 TB.

Contoso plans to implement the following changes:

Move the PostgreSQL database to Azure Database for PostgreSQL during the next six months.

Upgrade SQL1, SQL2, and SQL3 to SQL Server 2019 during the next few months.

Start onboarding customers to the new PaaS solution within six months.

Business Goals

Contoso identifies the following business requirements:

Use built-in Azure features whenever possible.

Minimize development effort whenever possible.

Minimize the compute costs of the PaaS solutions.

Provide all the customers with their own copy of the database by using the PaaS solution.

Provide the customers with different table and row access based on the customer's service agreement.

In the event of an Azure regional outage, ensure that the customers can access the PaaS solution with minimal downtime. The solution must provide automatic failover.

Ensure that users of the PaaS solution can create their own database objects but be prevented from modifying any of the existing database objects supplied by Contoso.

Technical Requirements

Contoso identifies the following technical requirements:

Users of the PaaS solution must be able to sign in by using their own corporate Azure AD credentials or have Azure AD credentials supplied to them by Contoso. The solution must avoid using the internal Azure AD of Contoso to minimize guest users.

All customers must have their own resource group, Azure SQL server, and Azure SQL database. The deployment of resources for each customer must be done in a consistent fashion.

Users must be able to review the queries issued against the PaaS databases and identify any new objects created.

Downtime during the PostgreSQL database migration must be minimized.

Monitoring Requirements

Contoso identifies the following monitoring requirements:

Notify administrators when a PaaS database has a higher than average CPU usage.

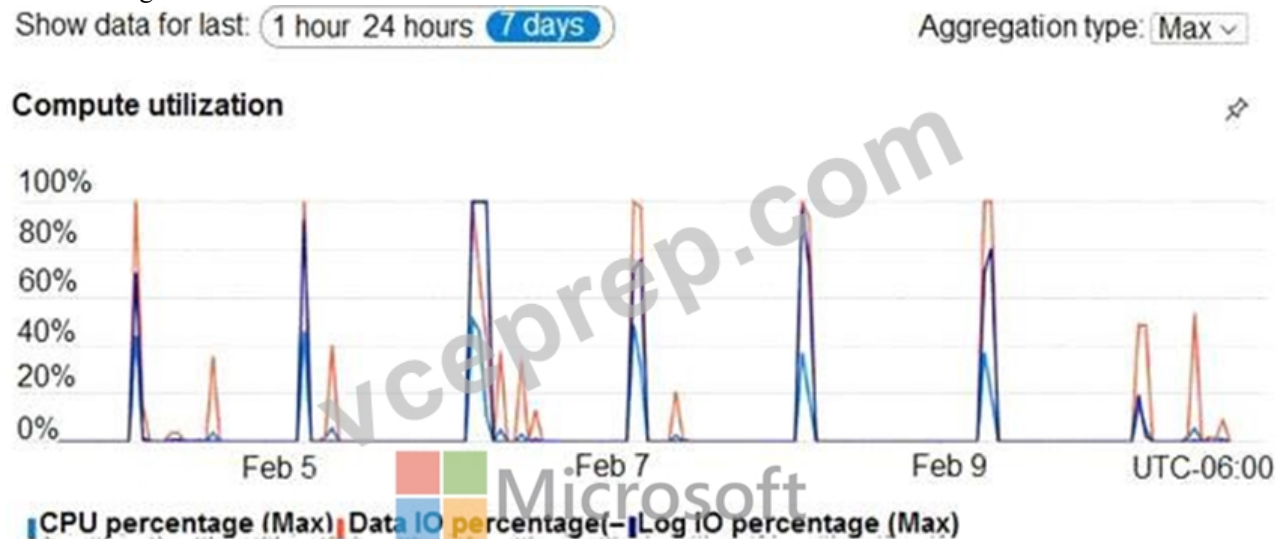
Use a single dashboard to review security and audit data for all the PaaS databases.

Use a single dashboard to monitor query performance and bottlenecks across all the PaaS databases.

Monitor the PaaS databases to identify poorly performing queries and resolve query performance issues automatically whenever possible.

PaaS Prototype

During prototyping of the PaaS solution in Azure, you record the compute utilization of a customer's Azure SQL database as shown in the following exhibit.



Role Assignments

For each customer's Azure SQL Database server, you plan to assign the roles shown in the following exhibit.

+ Add Edit columns Refresh Remove Got feedback?

Check access Role assignments Deny assignments Classic administrators Roles

Manage access to Azure resources for users, groups, service principals and managed identities at this scope by creating role assignments. [Learn more](#)

Number of role assignments for this subscription 15 2000

Name Type Role Scope

Search by name or email Groups 2 selected All scopes

Group by Role

Showing a filtered set of results. Total number of role assignments: 15

2 items (2 Groups)

	Name	Type	Role	Scope
Contributor				
☐	DB DBAGroup1	Group	Contributor	This resource
SQL DB Contributor				
☐	DB DBAGroup2	Group	SQL DB Contributor	This resource

NEW QUESTION # 327

You have an Azure SQL database named db1.

You need to retrieve the resource usage of db1 from the last week.

How should you complete the statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
SELECT *  
FROM  
    sys.dm_db_resource_stats  
    sys.dm_exec_requests  
    sys.dm_user_db_resource_governance  
    sys.resource_stats  
WHERE database_name = 'db1' AND  
    start_time > (day, -7, GETDATE())  
ORDER BY start_time DESC;
```

Answer:

Explanation:

```
SELECT *  
FROM  
    sys.dm_db_resource_stats  
    sys.dm_exec_requests  
    sys.dm_user_db_resource_governance  
    sys.resource_stats  
WHERE database_name = 'db1' AND  
    start_time > (day, -7, GETDATE())  
ORDER BY start_time DESC;
```

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/system-catalog-views/sys-resource-stats-azure-sql-database>

NEW QUESTION # 328

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.

You have an Azure SQL database named Sales.

You need to implement disaster recovery for Sales to meet the following requirements:

- * During normal operations, provide at least two readable copies of Sales.

- * Ensure that Sales remains available if a datacenter fails.

Solution: You deploy an Azure SQL database that uses the Business Critical service tier and Availability Zones.

Does this meet the goal?

- A. No
- B. Yes

Answer: B

Explanation:

Section: [none]

Explanation:

Premium and Business Critical service tiers leverage the Premium availability model, which integrates compute resources (sqlservr.exe process) and storage (locally attached SSD) on a single node. High availability is achieved by replicating both compute and storage to additional nodes creating a three to four-node cluster.

By default, the cluster of nodes for the premium availability model is created in the same datacenter. With the introduction of Azure Availability Zones, SQL Database can place different replicas of the Business Critical database to different availability zones in the same region. To eliminate a single point of failure, the control ring is also duplicated across multiple zones as three gateway rings (GW).

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/high-availability-sla>

NEW QUESTION # 329

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DP-300 Simulated Test: <https://www.vceprep.com/DP-300-latest-vce-prep.html>

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