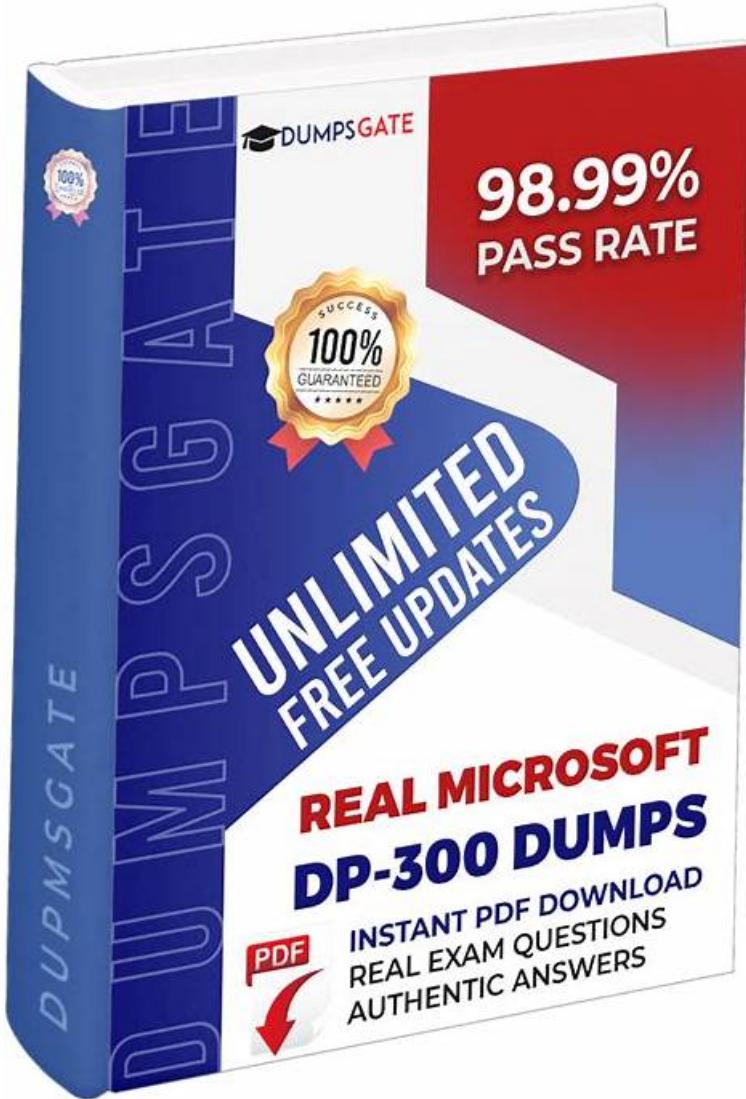


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The DP-300 certification exam covers a range of topics related to database administration on Azure, including configuring and managing databases, securing databases, backing up and restoring data, and monitoring and optimizing database performance. Passing DP-300 exam requires a deep understanding of the Azure platform and how it supports database management.

Microsoft DP-300 certification exam is ideal for professionals who want to demonstrate their expertise in database management and administration on Microsoft Azure. DP-300 Exam is designed to test the candidate's knowledge of Azure SQL Database, Azure SQL Managed Instance, and Azure Synapse Analytics. DP-300 exam also tests the candidate's ability to perform tasks such as configuring security, optimizing performance, and troubleshooting issues related to Azure databases.

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Our DP-300 learning quiz can be downloaded for free trial before purchase, which allows you to understand our sample questions and software usage. It will also enable you to make a decision based on your own needs. And we have organized a group of professionals to revise our DP-300 Preparation materials, according to the examination status and trend changes. The simple and easy-to-understand language of DP-300 exam questions frees any learner from studying difficulties.

Conclusion

The Microsoft DP-300 Exam is becoming an asset for an organization as of now. Using an extensive exam structure, it hones the skills of the test-taker at multiple levels. While you dream of success in DP-300, don't forget to take the help of quality books from Amazon and the official learning paths that we just recommended. They will imbue the best-of-class cognizance about exam topics and help you ace the actual test with confidence.

Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q63-Q68):

NEW QUESTION # 63

You have a on-premises Microsoft SQL Server named SQL1 that hosts five databases.

You need to migrate the databases to an Azure SQL managed instance. The solution must minimize downtime and prevent data loss. What should you use?

- A. Always On availability groups
- B. log shipping
- C. Backup and Restore
- D. **Database Migration Assistant**

Answer: D

NEW QUESTION # 64

You receive numerous alerts from Azure Monitor for an Azure SQL database.

You need to reduce the number of alerts. You must only receive alerts if there is a significant change in usage patterns for an extended period.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Set Force Plan to On
- B. **Set Threshold Sensitivity to Low**
- C. Set Threshold Sensitivity to High
- D. Set the Alert logic threshold to Static
- E. **Set the Alert logic threshold to Dynamic**

Answer: B,E

Explanation:

Explanation

B: Dynamic Thresholds continuously learns the data of the metric series and tries to model it using a set of algorithms and methods. It detects patterns in the data such as seasonality (Hourly / Daily / Weekly), and is able to handle noisy metrics (such as machine CPU or memory) as well as metrics with low dispersion (such as availability and error rate).

D: Alert threshold sensitivity is a high-level concept that controls the amount of deviation from metric behavior required to trigger an alert.

Low - The thresholds will be loose with more distance from metric series pattern. An alert rule will only trigger on large deviations, resulting in fewer alerts.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-dynamic-thresholds>

NEW QUESTION # 65

HOTSPOT

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.

Hot Area:

Answer Area



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())

DATEADD
DATEDIFF
DATEPART
TODATETIMEOFFSET

ORDER BY start_time DESC;

Answer:

Explanation:

Answer Area



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())

DATEADD
DATEDIFF
DATEPART
TODATETIMEOFFSET

ORDER BY start_time DESC;

Explanation:

Box 1: sys.resource_stats

sys.resource_stats returns CPU usage and storage data for an Azure SQL Database. It has database_name and start_time columns.

Box 2: DateAdd

The following example returns all databases that are averaging at least 80% of compute utilization over the last one week.

```
DECLARE @s datetime;
DECLARE @e datetime;
SET @s= DateAdd(d,-7,GetUTCDate());
SET @e= GETUTCDATE();
```

```
SELECT database_name, AVG(avg_cpu_percent) AS Average_Compute_Utilization FROM sys.resource_stats WHERE
start_time BETWEEN @s AND @e GROUP BY database_name HAVING AVG(avg_cpu_percent) >= 80
```

Incorrect Answers:
sys.dm_exec_requests:

sys.dm_exec_requests returns information about each request that is executing in SQL Server. It does not have a column named database_name.

sys.dm_db_resource_stats:

sys.dm_db_resource_stats does not have any start_time column.

Note: sys.dm_db_resource_stats returns CPU, I/O, and memory consumption for an Azure SQL Database database. One row exists for every 15 seconds, even if there is no activity in the database. Historical data is maintained for approximately one hour. Sys.dm_user_db_resource_governance returns actual configuration and capacity settings used by resource governance mechanisms in the current database or elastic pool. It does not have any start_time column.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/system-catalog-views/sys-resource-stats-azure-sql-database> Optimize Query Performance Testlet 1 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.

Existing Environment

Network Environment

The manufacturing and research datacenters connect to the primary datacenter by using a VPN.

The primary datacenter has an ExpressRoute connection that uses both Microsoft peering and private peering.

The private peering connects to an Azure virtual network named HubVNet.

Identity Environment

Litware has a hybrid Azure Active Directory (Azure AD) deployment that uses a domain named litwareinc.com.

All Azure subscriptions are associated to the litwareinc.com Azure AD tenant.

Database Environment

The sales department has the following database workload:

* An on-premises named SERVER1 hosts an instance of Microsoft SQL Server 2012 and two 1-TB databases.

* A logical server named SalesSrv01A contains a geo-replicated Azure SQL database named SalesSQLDb1.

SalesSQLDb1 is in an elastic pool named SalesSQLDb1Pool. SalesSQLDb1 uses database firewall rules and contained database users.

* An application named SalesSQLDb1App1 uses SalesSQLDb1.

The manufacturing office contains two on-premises SQL Server 2016 servers named SERVER2 and SERVER3. The servers are nodes in the same Always On availability group. The availability group contains a database named ManufacturingSQLDb1. Database administrators have two Azure virtual machines in HubVnet named VM1 and VM2 that run Windows Server 2019 and are used to manage all the Azure databases.

Licensing Agreement

Litware is a Microsoft Volume Licensing customer that has License Mobility through Software Assurance.

Current Problems

SalesSQLDb1 experiences performance issues that are likely due to out-of-date statistics and frequent blocking queries.

Requirements

Planned Changes

Litware plans to implement the following changes:

* Implement 30 new databases in Azure, which will be used by time-sensitive manufacturing apps that have varying usage patterns. Each database will be approximately 20 GB.

* Create a new Azure SQL database named ResearchDB1 on a logical server named ResearchSrv01.

ResearchDB1 will contain Personally Identifiable Information (PII) data.

* Develop an app named ResearchApp1 that will be used by the research department to populate and access ResearchDB1.

* Migrate ManufacturingSQLDb1 to the Azure virtual machine platform.

* Migrate the SERVER1 databases to the Azure SQL Database platform.

Technical Requirements

Litware identifies the following technical requirements:

* Maintenance tasks must be automated.

* The 30 new databases must scale automatically.

* The use of an on-premises infrastructure must be minimized.

* Azure Hybrid Use Benefits must be leveraged for Azure SQL Database deployments.

* All SQL Server and Azure SQL Database metrics related to CPU and storage usage and limits must be analyzed by using Azure built-in functionality.

Security and Compliance Requirements

Litware identifies the following security and compliance requirements:

* Store encryption keys in Azure Key Vault.

* Retain backups of the PII data for two months.

* Encrypt the PII data at rest, in transit, and in use.

* Use the principle of least privilege whenever possible.

* Authenticate database users by using Active Directory credentials.

* Protect Azure SQL Database instances by using database-level firewall rules.

* Ensure that all databases hosted in Azure are accessible from VM1 and VM2 without relying on public endpoints.

Business Requirements

Litware identifies the following business requirements:

* Meet an SLA of 99.99% availability for all Azure deployments.

* Minimize downtime during the migration of the SERVER1 databases.

* Use the Azure Hybrid Use Benefits when migrating workloads to Azure.

* Once all requirements are met, minimize costs whenever possible.

NEW QUESTION # 66

You have an Azure SQL database named DB1. The automatic tuning options for DB1 are configured as shown in the following exhibit.

Azure SQL Database built-in intelligence automatically tunes your databases to optimize performance. Click here to learn more about automatic tuning.

Inherit from: Server Azure defaults Don't inherit

i The database is inheriting automatic tuning configuration from Azure defaults.

Configure the automatic tuning options i

OPTION	DESIRED STATE	CURRENT STATE
FORCE PLAN	ON OFF INHERIT	ON Auto-configured by Azure
CREATE INDEX	ON OFF INHERIT	ON Auto-configured by Azure
DROP INDEX	ON OFF INHERIT	ON Forced by user

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
Nonclustered indexes will be added to tables to improve performance.	<input type="radio"/>	<input type="radio"/>
Columns will be added to existing indexes automatically.	<input type="radio"/>	<input type="radio"/>
The query execution plan will revert to a previous plan if query performance degrades.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
Nonclustered indexes will be added to tables to improve performance.	<input checked="" type="radio"/>	<input type="radio"/>
Columns will be added to existing indexes automatically.	<input type="radio"/>	<input checked="" type="radio"/>
The query execution plan will revert to a previous plan if query performance degrades.	<input type="radio"/>	<input type="radio"/>

Explanation:

Statements	Yes	No
Nonclustered indexes will be added to tables to improve performance.	<input type="radio"/>	<input checked="" type="radio"/>
Columns will be added to existing indexes automatically.	<input type="radio"/>	<input checked="" type="radio"/>
The query execution plan will revert to a previous plan if query performance degrades.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes

We see: Tuning option: Create index ON

CREATE INDEX - Identifies indexes that may improve performance of your workload, creates indexes, and automatically verifies that performance of queries has improved.

Box 2: No

Box 3: Yes

FORCE LAST GOOD PLAN (automatic plan correction) - Identifies Azure SQL queries using an execution plan that is slower than the previous good plan, and queries using the last known good plan instead of the regressed plan.

NEW QUESTION # 67

HOTSPOT

You have SQL Server on an Azure virtual machine that contains a database named DB1.

The database reports a CHECKSUM error.

You need to recover the database.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

USE master;

ALTER DATABASE [DB1] SET

GO

Microsoft

DBCC CHECKDB ('DB1',

GO

ALTER DATABASE [DB1] SET

GO

WITH ROLLBACK IMMEDIATE;

OFFLINE
ONLINE
SINGLE_USER
TRUSTWORTHY

WITH NO_INFOMSGS;

NOINDEX
PHYSICAL_ONLY
REPAIR_ALLOW_DATA_LOSS
REPAIR_FAST

MULTI_USER;
ONLINE;
OPEN;
TRUSTWORTHY;

Answer:

Explanation:

Answer Area

USE master;

ALTER DATABASE [DB1] SET

GO

Microsoft

DBCC CHECKDB ('DB1',

GO

ALTER DATABASE [DB1] SET

GO

WITH ROLLBACK IMMEDIATE;

OFFLINE
ONLINE
SINGLE_USER
TRUSTWORTHY

WITH NO_INFOMSGS;

NOINDEX
PHYSICAL_ONLY
REPAIR_ALLOW_DATA_LOSS
REPAIR_FAST

MULTI_USER;
ONLINE;
OPEN;
TRUSTWORTHY;

Section: [none]

Explanation:

Box 1: SINGLE_USER

The specified database must be in single-user mode to use one of the following repair options.

Box 2: REPAIR_ALLOW_DATA_LOSS

REPAIR_ALLOW_DATA_LOSS tries to repair all reported errors. These repairs can cause some data loss.

Note: The REPAIR_ALLOW_DATA_LOSS option is a supported feature but it may not always be the best option for bringing a database to a physically consistent state. If successful, the REPAIR_ALLOW_DATA_LOSS option may result in some data loss. In fact, it may result in more data lost than if a user were to restore the database from the last known good backup.

Incorrect Answers:

REPAIR_FAST

Maintains syntax for backward compatibility only. No repair actions are performed.

Box 3: MULTI_USER

MULTI_USER

All users that have the appropriate permissions to connect to the database are allowed.

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-checkdb-transact-sql>

NEW QUESTION # 68

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