



DP-300^{Q&As}

Administering Relational Databases on Microsoft Azure

Pass Microsoft DP-300 Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

<https://www.lead4pass.com/dp-300.html>

100% Passing Guarantee
100% Money Back Assurance

Following Questions and Answers are all new published by Microsoft
Official Exam Center

-  **Instant Download** After Purchase
-  **100% Money Back** Guarantee
-  **365 Days** Free Update
-  **800,000+** Satisfied Customers





QUESTION 1

You have two Azure SQL Database servers named Server1 and Server2. Each server contains an Azure SQL database named Database1.

You need to restore Database1 from Server1 to Server2. The solution must replace the existing Database1 on Server2.

Solution: You run the Remove-AzSqlDatabase PowerShell cmdlet for Database1 on Server2. You run the Restore-AzSqlDatabase PowerShell cmdlet for Database1 on Server2.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead restore Database1 from Server1 to the Server2 by using the RESTORE Transact-SQL command and the REPLACE option.

Note: REPLACE should be used rarely and only after careful consideration. Restore normally prevents accidentally overwriting a database with a different database. If the database specified in a RESTORE statement already exists on the current server and the specified database family GUID differs from the database family GUID recorded in the backup set, the database is not restored. This is an important safeguard.

Reference: <https://docs.microsoft.com/en-us/sql/t-sql/statements/restore-statements-transact-sql>

QUESTION 2

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 General Purpose service tier and failover groups.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

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

Note: 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>

QUESTION 3

You have an Always On availability group deployed to Azure virtual machines. The availability group contains a database named DB1 and has two nodes named SQL1 and SQL2. SQL1 is the primary replica.

You need to initiate a full backup of DB1 on SQL2.

Which statement should you run?

- A. `BACKUP DATABASE DB1 TO URL='https://mystorageaccount.blob.core.windows.net/mycontainer/DB1.bak'` with (Differential, STATS=5, COMPRESSION);
- B. `BACKUP DATABASE DB1 TO URL='https://mystorageaccount.blob.core.windows.net/mycontainer/DB1.bak'` with (COPY_ONLY, STATS=5, COMPRESSION);
- C. `BACKUP DATABASE DB1 TO URL='https://mystorageaccount.blob.core.windows.net/mycontainer/DB1.bak'` with (File_Snapshot, STATS=5, COMPRESSION);
- D. `BACKUP DATABASE DB1 TO URL='https://mystorageaccount.blob.core.windows.net/mycontainer/DB1.bak'` with (NoInit, STATS=5, COMPRESSION);

Correct Answer: B

BACKUP DATABASE supports only copy-only full backups of databases, files, or filegroups when it's executed on secondary replicas. Copy-only backups don't impact the log chain or clear the differential bitmap. Incorrect Answers:

A: Differential backups are not supported on secondary replicas. The software displays this error because the secondary replicas support copy-only database backups.

Reference: <https://docs.microsoft.com/en-us/sql/database-engine/availability-groups/windows/active-secondaries-backup-on-secondary-replicas-always-on-availability-groups>

QUESTION 4

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 Threshold Sensitivity to High
- B. Set the Alert logic threshold to Dynamic



- C. Set the Alert logic threshold to Static
- D. Set Threshold Sensitivity to Low
- E. Set Force Plan to On

Correct Answer: BD

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

QUESTION 5

DRAG DROP

You have SQL Server on an Azure virtual machine named SQL1.

SQL1 has an agent job to back up all databases.

You add a user named dbadmin1 as a SQL Server Agent operator.

You need to ensure that dbadmin1 receives an email alert if a job fails.

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.

Select and Place:

Actions

- Create a job alert
- Create a job notification
- Enable Database Mail
- Enable the email settings for the SQL Server Agent
- Create a job target

Answer Area

Lead4Pass.com

⬅️ ⬆️

⬆️ ⬅️



Correct Answer:

Actions	Answer Area
	Enable the email settings for the SQL Server Agent
	Create a job alert
Enable Database Mail	Create a job notification
Create a job target	

Step 1: Enable the email settings for the SQL Server Agent.

To send a notification in response to an alert, you must first configure SQL Server Agent to send mail.

Step 2: Create a job alert

Step 3: Create a job notification

Example:

-- adds an e-mail notification for the specified alert (Test Alert)

-- This example assumes that Test Alert already exists

-- and that François Ajenstat is a valid operator name.

```
USE msdb ;
```

```
GO
```

```
EXEC dbo.sp_add_notification
```

```
@alert_name = N\Test Alert\,
```

```
@operator_name = N\François Ajenstat\,
```

```
@notification_method = 1 ;
```

```
GO
```

Reference:

<https://docs.microsoft.com/en-us/sql/ssms/agent/notify-an-operator-of-job-status>

<https://docs.microsoft.com/en-us/sql/ssms/agent/assign-alerts-to-an-operator>



QUESTION 6

HOTSPOT

You need to implement the monitoring of SalesSQLDb1. The solution must meet the technical requirements.

How should you collect and stream metrics? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Collect metrics from:

	▼
The database only	
The elastic pool and the database	
The elastic pool only	
The server, the elastic pool, and the database	

Stream metrics to:

	▼
Azure Event Hubs	
Azure Log Analytics	
Azure Storage	

Correct Answer:

Answer Area

Collect metrics from:

	▼
The database only	
The elastic pool and the database	
The elastic pool only	
The server, the elastic pool, and the database	

Stream metrics to:

	▼
Azure Event Hubs	
Azure Log Analytics	
Azure Storage	

Box 1: The server, the elastic pool, and the database Scenario:

SalesSQLDb1 is in an elastic pool named SalesSQLDb1Pool.



Litware technical requirements include: 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.

Box 2: Azure Event hubs

Scenario: Migrate ManufacturingSQLDb1 to the Azure virtual machine platform.

Event hubs are able to handle custom metrics.

Incorrect Answers:

Azure Log Analytics

Azure metric and log data are sent to Azure Monitor Logs, previously known as Azure Log Analytics, directly by Azure. Azure SQL Analytics is a cloud only monitoring solution supporting streaming of diagnostics telemetry for all of your Azure

SQL databases.

However, because Azure SQL Analytics does not use agents to connect to Azure Monitor, it does not support monitoring of SQL Server hosted on-premises or in virtual machines.

QUESTION 7

DRAG DROP

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.

Select and Place:



Actions

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.

Answer Area



Correct Answer:

Actions

Enable Transparent Data Encryption (TDE).

Encrypt the Salary column by using the deterministic encryption type.

Apply a dynamic data mask to the Salary column.

Answer Area

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.

Incorrect Answers:

Deterministic encryption.

Deterministic encryption always generates the same encrypted value for any given plain text value. Using deterministic encryption allows point lookups, equality joins, grouping and indexing on encrypted columns. However, it may also allow

unauthorized users to guess information about encrypted values by examining patterns in the encrypted column, especially if there's a small set of possible encrypted values, such as True/False, or North/South/East/West region.

Reference:

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

QUESTION 8

You have a Microsoft SQL Server 2019 instance in an on-premises datacenter. The instance contains a 4-TB database named DB1.

You plan to migrate DB1 to an Azure SQL Database managed instance.

What should you use to minimize downtime and data loss during the migration?

- A. distributed availability groups
- B. database mirroring
- C. log shipping
- D. Database Migration Assistant

Correct Answer: A

The Data Migration Assistant (DMA) helps you upgrade to a modern data platform by detecting compatibility issues that can impact database functionality in your new version of SQL Server or Azure SQL Database. DMA recommends performance and reliability improvements for your target environment and allows you to move your schema, data, and uncontained objects from your source server to your target server.

Note: SQL Managed Instance supports the following database migration options (currently these are the only supported migration methods):

Azure Database Migration Service - migration with near-zero downtime.

Native RESTORE DATABASE FROM URL - uses native backups from SQL Server and requires some downtime.

Reference:

<https://docs.microsoft.com/en-us/sql/dma/dma-overview>

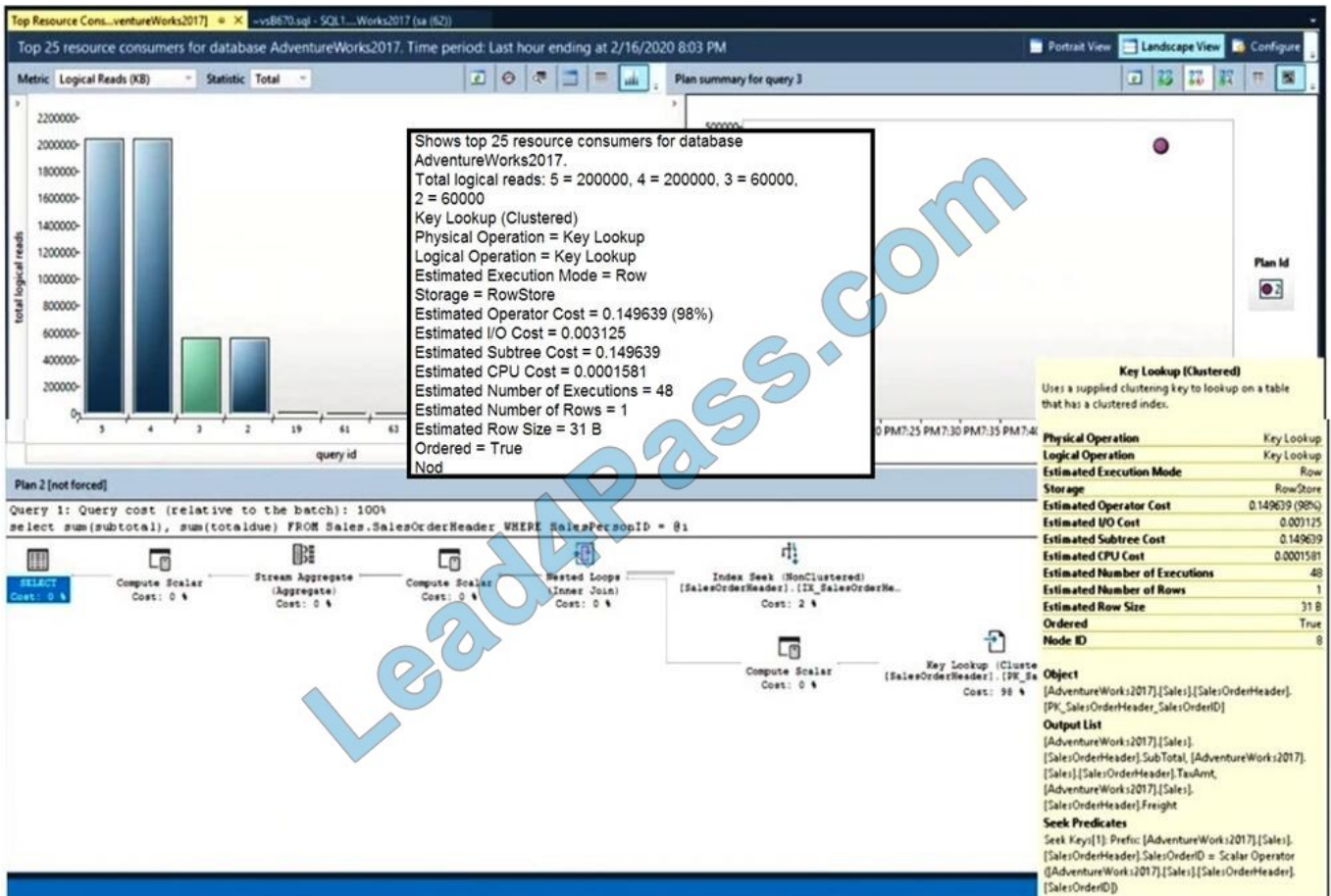


QUESTION 9

HOTSPOT

You have SQL Server on an Azure virtual machine.

You review the query plan shown in the following exhibit.



For each of the following statements, select yes if the statement is true. Otherwise, select no. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Statements	Yes	No
You will reduce the I/O usage and the query execution time if you force the query plan.	<input type="radio"/>	<input type="radio"/>
You will increase the I/O usage and the query execution time if you create a new index on the SalesOrderHeader table.	<input type="radio"/>	<input type="radio"/>
You will reduce the I/O usage and the query execution time if you include the SubTotal, TaxAmt, and Freight columns in the PK_SalesOrderHeader_SalesOrderID index.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
You will reduce the I/O usage and the query execution time if you force the query plan.	<input checked="" type="radio"/>	<input type="radio"/>
You will increase the I/O usage and the query execution time if you create a new index on the SalesOrderHeader table.	<input type="radio"/>	<input checked="" type="radio"/>
You will reduce the I/O usage and the query execution time if you include the SubTotal, TaxAmt, and Freight columns in the PK_SalesOrderHeader_SalesOrderID index.	<input checked="" type="radio"/>	<input type="radio"/>

Reference: <https://docs.microsoft.com/en-us/sql/relational-databases/performance/monitoring-performance-by-using-the-query-store>

QUESTION 10

You have SQL Server 2019 on an Azure virtual machine that runs Windows Server 2019. The virtual machine has 4 vCPUs and 28 GB of memory.

You scale up the virtual machine to 16 vCPUSs and 64 GB of memory.

You need to provide the lowest latency for tempdb.

What is the total number of data files that tempdb should contain?

- A. 2
- B. 4
- C. 8
- D. 64



Correct Answer: D

The number of files depends on the number of (logical) processors on the machine. As a general rule, if the number of logical processors is less than or equal to eight, use the same number of data files as logical processors. If the number of logical processors is greater than eight, use eight data files and then if contention continues, increase the number of data files by multiples of 4 until the contention is reduced to acceptable levels or make changes to the workload/code.

Reference: <https://docs.microsoft.com/en-us/sql/relational-databases/databases/tempdb-database>

QUESTION 11

DRAG DROP

You have SQL Server on an Azure virtual machine that contains a database named DB1. DB1 is 30 TB and has a 1-GB daily rate of change.

You back up the database by using a Microsoft SQL Server Agent job that runs Transact-SQL commands. You perform a weekly full backup on Sunday, daily differential backups at 01:00, and transaction log backups every five minutes.

The database fails on Wednesday at 10:00.

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

Select and Place:

Actions

Monday, Tuesday, and then Wednesday differential backups

Wednesday, Tuesday, and then Monday log backups

full backup

Monday, Tuesday, and then Wednesday log backups

Wednesday, Tuesday, and then Monday differential backups

Wednesday log backups

Wednesday differential backup

Answer Area



Correct Answer:



Actions

Monday, Tuesday, and then Wednesday differential backups

Wednesday, Tuesday, and then Monday log backups

Monday, Tuesday, and then Wednesday log backups

Wednesday, Tuesday, and then Monday differential backups

Answer Area

full backup

Wednesday differential backup

Wednesday log backups

QUESTION 12

You are building a database backup solution for a SQL Server database hosted on an Azure virtual machine.

In the event of an Azure regional outage, you need to be able to restore the database backups. The solution must minimize costs.

Which type of storage accounts should you use for the backups?

- A. locally-redundant storage (LRS)
- B. read-access geo-redundant storage (RA-GRS)
- C. zone-redundant storage (ZRS)
- D. geo-redundant storage

Correct Answer: B

Geo-redundant storage (with GRS or GZRS) replicates your data to another physical location in the secondary region to protect against regional outages. However, that data is available to be read only if the customer or Microsoft initiates a failover from the primary to secondary region. When you enable read access to the secondary region, your data is available to be read if the primary region becomes unavailable. For read access to the secondary region, enable read-access geo-redundant storage (RA-GRS) or read-access geo-zone-redundant storage (RA-GZRS).

Incorrect Answers:



A: Locally redundant storage (LRS) copies your data synchronously three times within a single physical location in the primary region. LRS is the least expensive replication option, but is not recommended for applications requiring high availability.

C: Zone-redundant storage (ZRS) copies your data synchronously across three Azure availability zones in the primary region.

D: Geo-redundant storage (with GRS or GZRS) replicates your data to another physical location in the secondary region to protect against regional outages. However, that data is available to be read only if the customer or Microsoft initiates a failover from the primary to secondary region.

Reference: <https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy>

QUESTION 13

You plan to move two 100-GB databases to Azure.

You need to dynamically scale resources consumption based on workloads. The solution must minimize downtime during scaling operations.

What should you use?

- A. An Azure SQL Database elastic pool
- B. SQL Server on Azure virtual machines
- C. an Azure SQL Database managed instance
- D. Azure SQL databases

Correct Answer: A

Azure SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single server and share a set number of resources at a set price.

Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-pool-overview>

[Latest DP-300 Dumps](#)

[DP-300 VCE Dumps](#)

[DP-300 Practice Test](#)



To Read the [Whole Q&As](#), please purchase the [Complete Version](#) from [Our website](#).

Try our product !

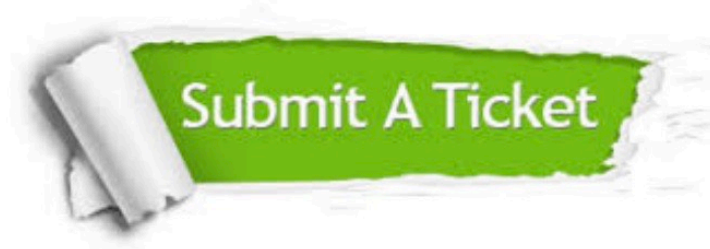
100% Guaranteed Success
100% Money Back Guarantee
365 Days Free Update
Instant Download After Purchase
24x7 Customer Support
Average 99.9% Success Rate
More than 800,000 Satisfied Customers Worldwide
Multi-Platform capabilities - [Windows](#), [Mac](#), [Android](#), [iPhone](#), [iPod](#), [iPad](#), [Kindle](#)

We provide exam PDF and VCE of Cisco, Microsoft, IBM, CompTIA, Oracle and other IT Certifications. You can view Vendor list of All Certification Exams offered:

<https://www.lead4pass.com/allproducts>

Need Help

Please provide as much detail as possible so we can best assist you.
To update a previously submitted ticket:



 <p>One Year Free Update Free update is available within One Year after your purchase. After One Year, you will get 50% discounts for updating. And we are proud to boast a 24/7 efficient Customer Support system via Email.</p>	 <p>Money Back Guarantee To ensure that you are spending on quality products, we provide 100% money back guarantee for 30 days from the date of purchase.</p>	 <p>Security & Privacy We respect customer privacy. We use McAfee's security service to provide you with utmost security for your personal information & peace of mind.</p>
---	---	--

Any charges made through this site will appear as Global Simulators Limited.
All trademarks are the property of their respective owners.
Copyright © lead4pass, All Rights Reserved.