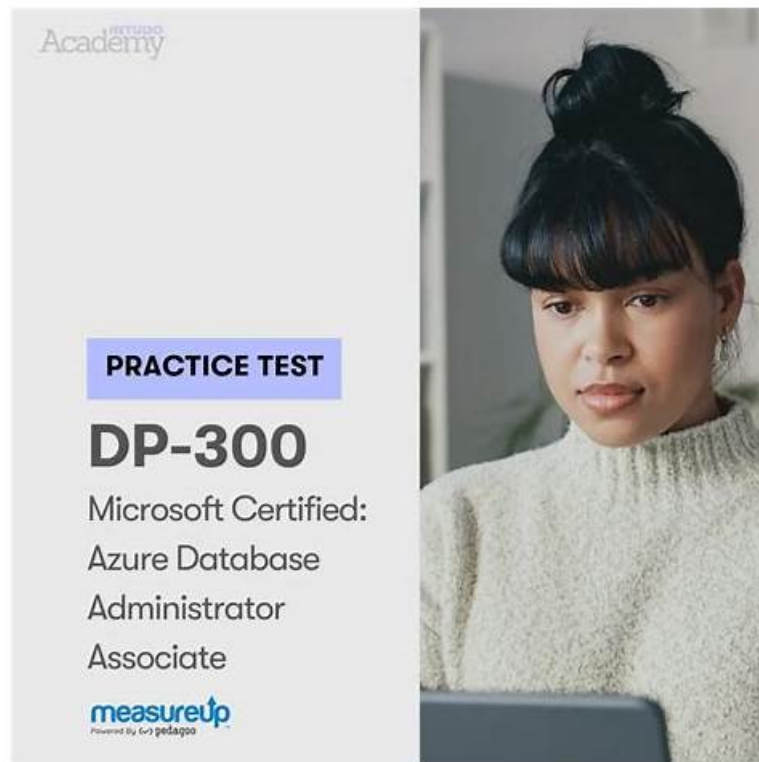


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Microsoft DP-300 Certification Exam is designed for IT professionals who want to prove their skills in administering relational databases on Microsoft Azure. Administering Relational Databases on Microsoft Azure certification exam is one of the most sought-after certifications in the industry, as it validates the skills and expertise of professionals in administering and managing databases on Microsoft Azure.

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Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q453-Q458):

NEW QUESTION # 453

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](#)

 The database is inheriting automatic tuning configuration from Azure defaults.

Configure the automatic tuning options 

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.	☐	☐
Columns will be added to existing indexes automatically.	☐	☐
The query execution plan will revert to a previous plan if query performance degrades.	☐	☐

Answer:

Explanation:

Statements	Yes	No
Nonclustered indexes will be added to tables to improve performance.	☒	☐
Columns will be added to existing indexes automatically.	☐	☒
The query execution plan will revert to a previous plan if query performance degrades.	☒	☐

Explanation

Statements	Yes	No
Nonclustered indexes will be added to tables to improve performance.	☒	☐
Columns will be added to existing indexes automatically.	☐	☒
The query execution plan will revert to a previous plan if query performance degrades.	☒	☐

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 # 454

You have an Azure SQL Database managed instance named sqldbmi1 that contains a database name Sales.

You need to initiate a backup of Sales.

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

NOTE: Each correct selection is worth one point.

BACKUP DATABASE Sales

TO DISK = \\BackupSystem\BackupDisk1\Sales.bak'
TO DISK = 'X:\BAK\Sales.bak'
TO 'Sales_Backup'
TO URL = 'https://storage1.blob.core.windows.net/blob1/Sales.bak'

WITH STATS = 5,

WITH COPY_ONLY;
WITH ENCRYPTION;
WITH FILE_SNAPSHOT;
WITH NO_TRUNCATE

Answer:

Explanation:

BACKUP DATABASE Sales

TO DISK = '\\BackupSystem\\BackupDisk1\\Sales.bak'
 TO DISK = 'X:\\BAK\\Sales.bak'
 TO 'Sales_Backup'
 TO URL = 'https://storage1.blob.core.windows.net/blob1/Sales.bak'

WITH STATS = 5

WITH COPY_ONLY;
 WITH ENCRYPTION;
 WITH FILE_SNAPSHOT;
 WITH NO_TRUNCATE

Reference:

<https://techcommunity.microsoft.com/t5/azure-sql-database/native-database-backup-in-azure-sql-managed-instance/ba-p/386154>

NEW QUESTION # 455

You are provisioning an Azure SQL database in the Azure portal as shown in the following exhibit.

Configure

Feedback

Compute Hardware

Click "Change configuration" to see details for all hardware generations available including memory optimized and compute optimized options

Hardware Configuration

Gen5
up to 40 vCores, up to 120 GB memory
[Change configuration](#)

Max vCores: 1 2 4 6 8 10 12 14 16 18 20 24 32 40 6 vCores

Min vCores: 0.75 1 1.25 1.5 1.75 2 2.25 2.5 3 4 5 6 0.75 vCores

2.25 GB MIN MEMORY 18 GB MAX MEMORY

Auto-pause delay

The database automatically pauses if it is inactive for the time period specified here, and automatically resumes when database activity recurs. Alternatively, auto-pausing can be disabled.

☐ Enable auto-pause

Days: 0 Hours: 4 Minutes: 0

Data max size 800 GB

240 GB LOG SPACE ALLOCATED

Cost summary

Gen5 - General Purpose (GP, S, Gen5, 0)	
Cost per GB (in USD)	0.12
Max storage selected (in GB)	x 1040
ESTIMATED STORAGE COST / MONTH	119.60 USD
COMPUTE COST / VCORE / SECOND ¹	0.000145 USD

NOTES

¹ Serverless databases are billed in vCores based on a combination of CPU and memory utilization. Learn more about serverless billing

Apply

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

After four hours of inactivity, the database requires [answer choice] to resume operations for new activities.

no extra time
up to 10 minutes
up to one minute

The database configuration reduces the cost of [answer choice] usage patterns.

intermittent and unpredictable
regular and high
steady and low

Answer:

Explanation:

After four hours of inactivity, the database requires [answer choice] to resume operations for new activities.

no extra time
up to 10 minutes
up to one minute

The database configuration reduces the cost of [answer choice] usage patterns.

intermittent and unpredictable
regular and high
steady and low

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/serverless-tier-overview>

NEW QUESTION # 456

You have an Azure subscription that contains a logical SQL server named Server1. The master database of Server1 contains a user named User1. You need to ensure that User1 can create databases on Server1. Which database role should you assign to User1?

- A. db_ddladmin
- B. db_owner
- C. dbmanager
- D. dbo

Answer: C

Explanation:

dbmanager: Can create and delete databases. A member of the dbmanager role that creates a database, becomes the owner of that database, which allows that user to connect to that database as the dbo user. The dbo user has all database permissions in the database. Members of the dbmanager role don't necessarily have permission to access databases that they don't own.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/authentication-access/database-level-roles>

NEW QUESTION # 457

Task 5

You need to configure a disaster recovery solution for db1. When a failover occurs, the connection strings to the database must remain the same. The secondary server must be in the West US 3 Azure region.

Answer:

Explanation:

See the explanation part for the complete Solution.

Explanation:

To configure a disaster recovery solution for db1, you can use the failover groups feature of Azure SQL Database. Failover groups allow you to manage the replication and failover of a group of databases across different regions with the same connection strings¹. You can also use active geo-replication as an alternative, but you will need to update the connection strings manually after a failover².

Here are the steps to create a failover group for db1 with the secondary server in the West US 3 region:

- * Using the Azure portal:
- * Go to the Azure portal and select your Azure SQL Database server that hosts db1.
- * Select Failover groups in the left menu and click on Add group.
- * Enter a name for the failover group and select West US 3 as the secondary region.
- * Click on Create a new server and enter the details for the secondary server, such as server name, admin login, password, and subscription.
- * Click on Select existing database(s) and choose db1 from the list of databases on the primary server.
- * Click on Configure failover policy and select the failover mode, grace period, and read-write failover endpoint mode according to your preferences.
- * Click on Create to create the failover group and start the replication of db1 to the secondary server.
- * Using PowerShell commands:
- * Install the Azure PowerShell module and log in with your Azure account.
- * Run the following command to create a new server in the West US 3 region: `New-AzSqlServer -ResourceGroupName <your-resource-group-name> -ServerName <your-secondary-server-name> -Location "West US 3" -SqlAdministratorCredentials $(New-Object -TypeName System.Management.Automation.PSCredential -ArgumentList "<your-admin-login>", $(ConvertTo-SecureString -String "<your-password>" -AsPlainText -Force))`
- * Run the following command to create a new failover group with db1: `New-AzSqlDatabaseFailoverGroup -ResourceGroupName <your-resource-group-name> -ServerName <your-primary-server-name> -PartnerResourceGroupName <your-resource-group-name> -PartnerServerName <your-secondary-server-name> -FailoverGroupName <your-failover-group-name> -Database db1 -FailoverPolicy Manual -GracePeriodWithDataLossHours 1 -ReadWriteFailoverEndpoint "Enabled"`
- * You can modify the parameters of the command according to your preferences, such as the failover policy, grace period, and read-write failover endpoint mode.

These are the steps to create a failover group for db1 with the secondary server in the West US 3 region.

NEW QUESTION # 458

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