

# Microsoft

## Exam Questions DP-300

Administering Relational Databases on Microsoft Azure (beta)



**NEW QUESTION 1**

You have an Azure SQL database that contains a table named factSales. FactSales contains the columns shown in the following table.

Name	Data type
SalesID	Int
Product	Int
Total Number	Numeric(8,4)
Tax Number	Numeric(8,4)
SalesRep	Varchar(30)

FactSales has 6 billion rows and is loaded nightly by using a batch process.

Which type of compression provides the greatest space reduction for the database?

- A. page compression
- B. row compression
- C. columnstore compression
- D. columnstore archival compression

**Answer:** D

**NEW QUESTION 2**

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

**Answer:** A

**NEW QUESTION 3**

You have 20 Azure SQL databases provisioned by using the vCore purchasing model.

You plan to create an Azure SQL Database elastic pool and add the 20 databases.

Which three metrics should you use to size the elastic pool to meet the demands of your workload? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. total size of all the databases
- B. geo-replication support
- C. number of concurrently peaking databases \* peak CPU utilization per database
- D. maximum number of concurrent sessions for all the databases
- E. total number of databases \* average CPU utilization per database

**Answer:** D

**Explanation:**

1. You have a new Azure SQL database. The database contains a column that stores confidential information.

You need to track each time values from the column are returned in a query. The tracking information must be stored for 365 days from the date the query was executed. Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Turn on auditing and write audit logs to an Azure Storage account.
- B. Add extended properties to the column.
- C. Turn on Advanced Data Security for the Azure SQL server.
- D. Apply sensitivity labels named Highly Confidential to the column.
- E. Turn on Azure Advanced Threat Protection (ATP).

2. You have an Azure virtual machine named VM1 on a virtual network named VNet1. Outbound traffic from VM1 to the internet is blocked. You have an Azure SQL database named SqlDb1 on a logical server named SqlSrv1.

You need to implement connectivity between VM1 and SqlDb1 to meet the following requirements:

- Ensure that all traffic to the public endpoint of SqlSrv1 is blocked. Minimize the possibility of VM1 exfiltrating data stored in SqlDb1.

What should you create on VNet1?

- A. a VPN gateway
- B. a service endpoint
- C. a private link
- D. an ExpressRoute gateway

1. You have SQL Server on an Azure virtual machine that contains a database named DB1. DB1 contains a table named CustomerPII. You need to record whenever users query the CustomerPII table.

Which two options should you enable? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. server audit specification
- B. SQL Server audit
- C. database audit specification
- D. a server principal

2. You have an Azure virtual machine based on a custom image named VM1.

VM1 hosts an instance of Microsoft SQL Server 2019 Standard.

- You need to automate the maintenance of VM1 to meet the following requirements: Automate the patching of SQL Server and Windows Server.

▪ Automate full database backups and transaction log backups of the databases on VM1. Minimize administrative effort.

What should you do first?

- A. Enable a system-assigned managed identity for VM1
- B. Register VM1 to the Microsoft.Sql resource provider
- C. Install an Azure virtual machine Desired State Configuration (DSC) extension on VM1
- D. Register VM1 to the Microsoft.SqlVirtualMachine resource provider

3. 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

4. You have an Azure SQL database named sqldb1.

You need to minimize the amount of space by the data and log files of sqldb1. What should you run?

- A. DBCC SHRINKDATABASE
- B. sp\_clean\_db\_free\_space
- C. sp\_clean\_db\_file\_free\_space
- D. DBCC SHRINKFILE

5. You have an Azure SQL Database server named sqlsrv1 that hosts 10 Azure SQL databases.

The databases perform slower than expected.

You need to identify whether the performance issue relates to the use of tempdb on sqlsrv1. What should you do?

- A. Run Query Store-based queries
- B. Review information provided by SQL Server Profiler-based traces
- C. Review information provided by Query Performance Insight
- D. Run dynamic management view-based queries

#### NEW QUESTION 4

You have an Azure SQL database named sqldb1.

You need to minimize the possibility of Query Store transitioning to a read-only state. What should you do?

- A. Double the value of Data Flush interval
- B. Decrease by half the value of Data Flush Interval
- C. Double the value of Statistics Collection Interval
- D. Decrease by half the value of Statistics Collection interval

**Answer: B**

#### NEW QUESTION 5

▪ You need to recommend an availability strategy for an Azure SQL database. The strategy must meet the following requirements: Support failovers that do not require client applications to change their connection strings.

▪ Replicate the database to a secondary Azure region. Support failover to the secondary region.

What should you include in the recommendation?

- A. failover groups
- B. transactional replication
- C. Availability Zones
- D. geo-replication

**Answer: D**

#### NEW QUESTION 6

You have an Azure SQL database named DB1.

You need to ensure that DB1 will support automatic failover without data loss if a datacenter fails. The solution must minimize costs. Which deployment option and pricing tier should you configure?

- A. Azure SQL Database Premium
- B. Azure SQL Database serverless
- C. Azure SQL Database managed instance Business Critical
- D. Azure SQL Database Standard

**Answer: A**

#### NEW QUESTION 10

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