



# 70-765<sup>Q&As</sup>

Provisioning SQL Databases

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## QUESTION 1

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You have deployed a GS-series virtual machine (VM) in Microsoft Azure. You plan to deploy Microsoft SQL Server.

You need to deploy a 30 megabyte (MB) database that requires 100 IOPS to be guaranteed while minimizing costs.

Which storage option should you use?

- A. Premium P10 disk storage
- B. Premium P20 disk storage
- C. Premium P30 disk storage
- D. Standard locally redundant disk storage
- E. Standard geo-redundant disk storage
- F. Standard zone redundant blob storage
- G. Standard locally redundant blob storage
- H. Standard geo-redundant blob storage

Correct Answer: A

### Premium Storage Disks Limits

When you provision a disk against a Premium Storage account, how much input/output operations per second (IOPS) and throughput (bandwidth) it can get depends on the size of the disk. Currently, there are three types of Premium Storage

disks: P10, P20, and P30.

Each one has specific limits for IOPS and throughput as specified in the following table:

Premium Storage Disk Type	P10	P20	P30
Disk Size	128 GiB	512 GiB	1024 GiB (1 TB)
IOPS per disk	500	2300	5000
Throughput per disk	100 MB per second	150 MB per second	200 MB per second

References:<https://docs.microsoft.com/en-us/azure/storage/storage-premium-storage>



### QUESTION 2

You manage a Microsoft SQL Server environment in a Microsoft Azure virtual machine.

You must enable Always Encrypted for columns in a database.

You need to configure the key store provider.

What should you do?

- A. Manually specify the column master key.
- B. Modify the connection string for applications.
- C. Auto-generate a column master key.
- D. Use the Windows certificate store.

Correct Answer: D

Always Encrypted supports multiple key stores for storing Always Encrypted column master keys. A column master key can be a certificate stored in Windows Certificate Store.

References: <https://msdn.microsoft.com/en-us/library/mt723359.aspx>

### QUESTION 3

You plan to migrate a Microsoft SQL Server workload from an on-premises server to a Microsoft Azure virtual machine (VM). The current server contains 4 cores with an average CPU workload of 6 percent and a peak workload of 10 percent

when using 2.4Ghz processors.

You gather the following metrics:

	Minimum IOPS	Average IOPS	Maximum IOPS
Data Drive	100	938	7253
Transaction Log Drive	12	145	350
TempDB Drive	300	900	1900

You need to design a SQL Server VM to support the migration while minimizing costs.

For each setting, which value should you use? To answer, select the appropriate storage option from each list in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



**Answer Area**

VM setting	Value
Data drive	Local storage Premium storage Standard storage
Transaction log drive	Local storage Premium storage Standard storage
TempDB drive	Local storage Premium storage Standard storage
VM size	A3 D3 DS3

Correct Answer:

**Answer Area**

VM setting	Value
Data drive	Local storage Premium storage Standard storage
Transaction log drive	Local storage Premium storage Standard storage
TempDB drive	Local storage Premium storage Standard storage
VM size	A3 D3 DS3

Data drive: Premium Storage Transaction log drive: Standard Storage TempDB drive: Premium Storage Note: A standard disk is expected to handle 500 IOPS or 60MB/s. A P10 Premium disk is expected to handle 500 IOPS. A P20 Premium disk is expected to handle 2300 IOPS. A P30 Premium disk is expected to handle 5000 IOPS. VM size: A3 Max data disk throughput is 8x500 IOPS

References:<https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machineswindows-sizes>



#### QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets stated goals.

You have a mission-critical application that stores data in a Microsoft SQL Server instance.

The application runs several financial reports. The reports use a SQL Server-authenticated login named Reporting\_User. All queries that write data to the database use Windows authentication.

Users report that the queries used to provide data for the financial reports take a long time to complete. The queries consume the majority of CPU and memory resources on the database server. As a result, read-write queries for the application also take a long time to complete.

You need to improve performance of the application while still allowing the report queries to finish.

Solution: You create a snapshot of the database. You configure all report queries to use the database snapshot.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Use a Resource Governor instead. References:<https://msdn.microsoft.com/en-us/library/bb933866.aspx>

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#### QUESTION 5

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 sections, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are migrating an on-premises Microsoft SQL Server instance to SQL Server on a Microsoft Azure virtual machine. The instance has 30 databased that consume a total of 2 TB of disk space.

The instance sustains more than 30,000 transactions per second.

You need to provision storage for the virtual machine. The storage must be able to support the same load as the on-premises deployment.

Solution: You create one storage account that has 30 containers. You create a VHD in each container.

Does this meet the goal?

A. Yes



B. No

Correct Answer: B

Each Storage Account handles up to 20,000 IOPS, and 500TB of data. References: <https://www.tech-coffee.net/understand-microsoft-azure-storage-for-virtual-machines/>

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