70-765 Q&As

Provisioning SQL Databases

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QUESTION 1

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 use drive D on the virtual machine to store the database files.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

The D drive should only be used for temporary data.

QUESTION 2

You have Microsoft SQL Server on a Microsoft Azure Virtual machine that has a 4-TB database.

You plan to configure daily backups for the database. A single full backup will be approximately 1.5 TB of compressed data.

You need to ensure that the last backups are retained.

Where should you store the daily backups?

A. Local storage

B. Page blob storage

C. Virtual disks

D. Block blob storage.

Correct Answer: D

When backing up to Microsoft Azure blob storage, SQL Server 2016 supports backing up to multiple blobs to enable backing up large databases, up to a maximum of 12.8 TB. This is done through Block Blobs.

QUESTION 3

You have an on-premises server that runs Windows Server 2012 R2. The server has a Microsoft SQL Server 2016

instance that has one user database. The database is 2 TB.

Your company has a Win32 application installed on 1,000 computers. The application connects to the database by using a network name of server1.contoso.local.

You need to migrate the database to SQL Server 2016 on a Microsoft Azure virtual machine that runs Windows Server 2016. The solution must minimize outages to the application.

What should you do?

A. Copy the database files and update the records in DNS.

B. Implement an availability group and update the records in DNS.

C. Implement database mirroring and update the records in DNS.

D. Implement database mirroring and change the connection string.

Correct Answer: B

SQL Server high availability and disaster recovery (HADR) technologies that are supported in Azure include:

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 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 tuning the performance of a virtual machines that hosts a Microsoft SQL Server instance.

The virtual machine originally had four CPU cores and now has 32 CPU cores.

The SQL Server instance uses the default settings and has an OLTP database named db1. The largest table in db1 is a key value store table named table1.

Several reports use the PIVOT statement and access more than 100 million rows in table1.

You discover that when the reports run, there are PAGELATCH_IO waits on PFS pages 2:1:1, 2:2:1, 2:3:1, and 2:4:1 within the tempdb database.

You need to prevent the PAGELATCH_IO waits from occurring.

Solution: You add more tempdb databases. Does this meet the goal?

A. Yes

B. No

Correct Answer: B

From SQL Server\\'s perspective, you can measure the I/O latency from sys.dm_os_wait_stats. If you consistently see high waiting for PAGELATCH_IO, you can benefit from a faster I/O subsystem for SQL Server.A cause can be poor design of your database - you may wish to split out data located on \\'hot pages\\', which are accessed frequently and which you might identify as the causes of your latch contention. For example, if you have a currency table with a data page containing 100 rows, of which 1 is updated per transaction and you have a transaction rate of 200/sec, you could see page latch queues of 100 or more. If each page latch wait costs just 5ms before clearing, this represents a full half-second delay for each update. In this case, splitting out the currency rows into different tables might prove more performant (if less normalized and logically structured).

References: https://www.mssqltips.com/sqlservertip/3088/explanation-of-sql-server-io-and-latches/

QUESTION 5

You use Microsoft Azure Resource Manager to deploy two new Microsoft SQL Server instances in an Azure virtual machine (VM). VM has 28 gigabytes (GB) of memory. The instances are named Instance1 and Instance2, respectively. The various databases on the instances have the following characteristics:

Instance name	Aggregate database size	Daily working set	Concurrent users
Instance1	200 GB	25 GB	2,000
Instance2	300 GB	10 GB	2,000

You run the following Transact-SQL statements:

```
sp_configure 'show advanced options', 1;
GO
RECONFIGURE;
GO
```

You need to configure each SQL Server instance to correctly allocate memory. What should you do?

A. On Instance1, run the following Transact-SQL code: On Instance2, run the following Transact-SQL code:

B. A. On Instance1, run the following Transact-SQL code: On Instance2, run the following Transact-SQL code:

C. On Instance1, run the following Transact-SQL code: On Instance2, run the following Transact-SQL code:

D. On Instance1, run the following Transact-SQL code: On Instance2, run the following Transact-SQL code:

Correct Answer: D

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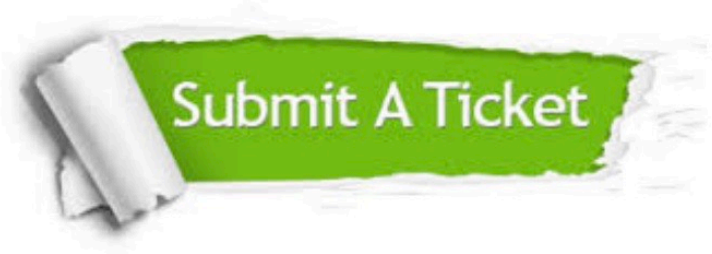

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