



MCSA / MCSE for Microsoft SQL Server 2016

Exam 70-765 Provisioning SQL Databases

Microsoft
CERTIFIED

Solutions Associate

SQL 2016
Database Development

Microsoft
CERTIFIED

Solutions Expert

Data Management and
Analytics

70-765: Provisioning SQL Server 2016 Databases

Case Study: 1 Automobile parts

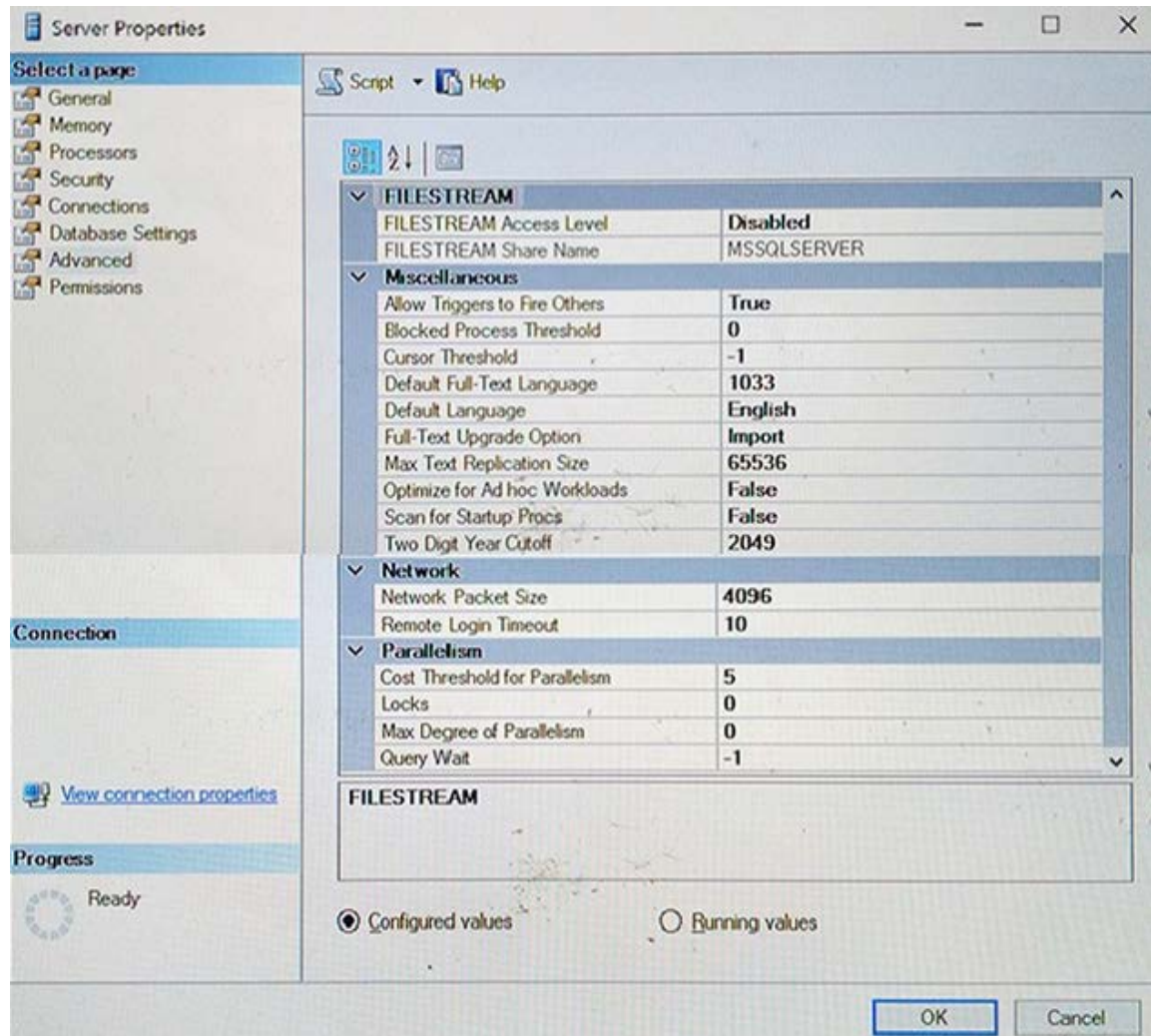
Background

You manage the Microsoft SQL Server environment for a company that manufactures and sells automobile parts.

The environment includes the following servers: SRV1 and SRV2. SRV1 has 16 logical cores and hosts a SQL Server instance that supports a mission-critical application. The application has approximately 30,000 concurrent users and relies heavily on the use of temporary tables.

The environment also includes the following databases: DB1, DB2, and Reporting. The Reporting database is protected with Transparent Data Encryption (TDE). You plan to migrate this database to a new server. You detach the database and copy it to the new server.

You are performing tuning on a SQL Server database instance. The application which uses the database was written using an object relationship mapping (ORM) tool which maps tables as objects within the application code. There are 30 stored procedures that are regularly used by the application.



Question No: 1 HOTSPOT

You need to optimize SRV1.

What configuration changes should you implement? To answer, select the appropriate option from each list in the answer area.

Answer Area

How should you modify the tempdb configuration?

- Change the recovery model of tempdb.
- Change the number of tempdb files.
- Change the size of the tempdb log file.
- Change the MAXDOP property.

How should you reconfigure the tempdb database?

- Add additional tempdb files.
- Remove tempdb files.
- Add tempdb log files.
- Remove tempdb log files.
- Set MAXDOP to 8.

Answer:

Answer Area

How should you modify the tempdb configuration?

- Change the recovery model of tempdb.
- Change the number of tempdb files.
- Change the size of the tempdb log file.
- Change the MAXDOP property.

How should you reconfigure the tempdb database?

- Add additional tempdb files.
- Remove tempdb files.
- Add tempdb log files.
- Remove tempdb log files.
- Set MAXDOP to 8.

Question No: 2 HOTSPOT

You need to resolve the identified issues.

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

Answer Area

What setting would you change to reduce the number of execution plans in the plan cache?

- Optimize for Ad Hoc workload
- Max Degree of Parallelism
- Query Wait

What setting would you change to which value to reduce the number of queries which are using parallelism?

- Max Degree of Parallelism to 4
- Cost Threshold for Parallelism to 50
- Locks to 100

Answer:

Answer Area

What setting would you change to reduce the number of execution plans in the plan cache?

Optimize for Ad Hoc workload ▼
Max Degree of Parallelism
Query Wait

What setting would you change to which value to reduce the number of queries which are using parallelism?

Max Degree of Parallelism to 4 ▼
Cost Threshold for Parallelism to 50
Locks to 100

Case Study: 2 Contoso, Ltd

Background

You are the database administrator for Contoso, Ltd. The company has 200 offices around the world. The company has corporate executives that are located in offices in London, New York, Toronto, Sydney, and Tokyo.

Contoso, Ltd. has a Microsoft Azure SQL Database environment. You plan to deploy a new Azure SQL Database to support a variety of mobile applications and public websites.

The company is deploying a multi-tenant environment. The environment will host Azure SQL Database instances. The company plans to make the instances available to internal departments and partner companies. Contoso is in the final stages of setting up networking and communications for the environment.

Existing Contoso and Customer instances need to be migrated to Azure virtual machines (VM) according to the following requirements:

The company plans to deploy a new order entry application and a new business intelligence and analysis application.

Each application will be supported by a new database.

Contoso creates a new Azure SQL database named Reporting.

The database will be used to support the company's financial reporting requirements.

You associate the database with the Contoso Azure Active Directory domain.

Each location database for the data entry application may have an unpredictable amount of activity.

Data must be replicated to secondary databases in Azure datacenters in different regions.

To support the application, you need to create a database named contosodb1 in the existing environment.

Objects

Parameter	Name
Logical Server	contososrv
Resource Group	contosodbrg

Database

The contosodb1 database must support the following requirements:

Application

For the business intelligence application, corporate executives must be able to view all data in near

real-time with low network latency.

Contoso has the following security, networking, and communications requirements:

Question No: 3 HOTSPOT

You need to configure the data entry and business intelligence databases.

In the table below, identify the option that you must use for each database.

NOTE: Make only one selection in each column.

Answer Area

Option	Data entry	Business intelligence
Elastic database pools only	<input type="radio"/>	<input type="radio"/>
Geo-replicated database only	<input type="radio"/>	<input type="radio"/>
Elastic database pools and geo-replicated databases	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Option	Data entry	Business intelligence
Elastic database pools only	<input type="radio"/>	<input checked="" type="radio"/>
Geo-replicated database only	<input checked="" type="radio"/>	<input type="radio"/>
Elastic database pools and geo-replicated databases	<input type="radio"/>	<input type="radio"/>

Question No: 4 HOTSPOT

You need to create the contosodb1 database.

How should you complete the Azure PowerShell command? To answer, select the appropriate Azure PowerShell segments in the answer area .

Answer Area

▼
New-AzureSqlDatabase
New-AzureRmSqlDatabase
Set-AzureRmSqlDatabase

- ResourceGroupName "contosodbrg"

- ServerName "contososrv"

- DatabaseName "contosodbl"

- Edition

▼
Basic
Standard
Premium

- RequestedServiceObjectName S2

Answer:

Answer Area

▼
New-AzureSqlDatabase
New-AzureRmSqlDatabase
Set-AzureRmSqlDatabase

- ResourceGroupName "contosodbrg"

- ServerName "contososrv"

- DatabaseName "contosodbl"

- Edition

▼
Basic
Standard
Premium

- RequestedServiceObjectName S2