



70-764^{Q&As}

Administering a SQL Database Infrastructure

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**QUESTION 1**

You have an application that queries a database. Users report that the application is slower than expected.

You discover that several server process identifiers (SPIDs) have PAGELATCH_UP and PAGELATCH_EX waits. The resource descriptions of the SPIDs contains 2:1:1.

You need to resolve the issue.

What should you do?

- A. Allocate additional processor cores to the server.
- B. Add files to the file group of the application database.
- C. Reduce the fill factor of all clustered indexes.
- D. Add data files to tempdb.

Correct Answer: D

PAGELATCH contention in tempdb is typically on allocation bitmaps and occurs with workloads with many concurrent connections creating and dropping small temporary tables (which are stored in tempdb).

Assuming that the temporary tables are needed for performance, the trick is to have multiple data files for tempdb so that the allocations are done round-robin among the files, the contention is split over multiple PFS pages, and so the overall contention goes down. References: <https://sqlperformance.com/2015/10/sql-performance/knee-jerk-wait-statistics-pagelatch>

QUESTION 2

You need to validate rows before they are added to a table every time a row is added using a user-defined function. What should you use? More than one answer may achieve the goal. Select the BEST answer.

- A. DML Trigger
- B. Default constraint
- C. Foreign key
- D. CHECK constraint

Correct Answer: D

QUESTION 3

You maintain two Microsoft SQL Server instances that are hosted on two servers named SVR1 and SVR2. You configure log shipping using the following information:

DB1 on SVR1 is configured as the primary database Logs are backed up to a shared folder on SVR1



DB2 on SVR2 is configured as the secondary database

The service accounts for SQL Server Agent are set up using different domain accounts.

After changes are made to SVR1, log shipping is failing with the following error message:

```
Could not copy log backup file '\\SVR1\TLogs\DB1_20180312003001.trn'.  
The copy operation will be re-attempted on the next run of the Copy job. (Access to the path is denied.)
```

You need to resolve the issue. What should you do?

- A. Create a new proxy account named PRX1 on SVR2. Grant PRX1 read access to the log copy destination folder on SVR2. Then, configure the copy job to run as PRX1.
- B. Configure the log backup shared folder to ensure the SQL Server Agent service account on SVR2 has read access.
- C. Create a new proxy account named PRX1 on SVR1. Grant PRX1 write access to the log backup shared folder. Then, configure the backup job to run as PRX1.
- D. Configure the log backup shared folder to ensure the SQL Server Agent service account in SVR1 has read access.

Correct Answer: C

QUESTION 4

You administer two servers AO-AG1 and AO-AG2. Microsoft SQL Server 2016 Enterprise Edition is running on both servers.

You need to configure a new Microsoft SQL Server Always On Availability Group.

Which three actions should you perform? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Answer options

Create an Always On Availability Group and select the availability databases.

Create a Windows Network Load Balancing (NLB) cluster with AO-AG1 and AO-AG2 as nodes.

Enable the Always On Availability Groups feature on both AO-AG1 and AO-AG2.

Configure a secondary replica.

Create a Windows Server Failover Clustering (WSFC) cluster with AO-AG1 and AO-AG2 as nodes.

Answer Area



Correct Answer:

Answer options

-
-
- Enable the Always On Availability Groups feature on both AO-AG1 and AO-AG2.
-
- Create a Windows Server Failover Clustering (WSFC) cluster with AO-AG1 and AO-AG2 as nodes.

Answer Area

- Create a Windows Network Load Balancing (NLB) cluster with AO-AG1 and AO-AG2 as nodes.
- Configure a secondary replica.
- Create an Always On Availability Group and select the availability databases.

Step 1: Create a Windows Server Failover Clustering (WSFC) cluster with AO-AG1 and AO-AG2 as nodes.

Since AlwaysOn Availability Groups require a Windows Server Failover Cluster, we first need to add the Windows Failover Cluster Feature to all the machines running the SQL Server instances that we will configure as replicas.

Step 2: Configure a secondary replica

In the Specify Replicas page, under the Replicas tab, click the Add Replicas button and connect to the other SQL Server instances that you joined as nodes in your Windows Server Failover Cluster.

Step 3: Create an Always On Availability Group and select the availability databases

Once the Windows Server Failover Cluster has been created, we can now proceed with enabling the AlwaysOn Availability Groups feature in SQL Server 2012. This needs to be done on all of the SQL Server instances that you will configure

as replicas in your Availability Group.

QUESTION 5

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

You maintain a Microsoft SQL Server instance that contains the following databases SalesDb1, SalesDb2, and SalesDb3. Each database has table named Products and Sales. The following table shows the configuration of each database.



Option of configuration	SalesDb1	SalesDb2	SalesDb3
Recovery model	Full	Full	Simple
Query Store operation model	Read Write	Off	Off
Auto Update Statistics	True	False	False
Auto Update Statistics asynchronously	False	False	False
Sales data age	< 1 month	1 to 6 months	> 6 months

The backup strategies for each database are described in the following table.

Database	Strategy	Backup file names
SalesDb1	Full database backups occur daily at 00:30. Log backups occur every hour.	SalesDb1Full_*.bak SalesDb1Log.bak
SalesDb2	Full database backups occur every three months. Differential backups occur every month. Logs are not backed up.	SalesDb2Delta_*.bak SalesDb2Full_*.bak
SalesDb3	Full database backups occur every five years. Differential backups occur every six months.	SalesDb3Delta_*.bak SalesDb3Full_*.bak

Each full or differential backup operation writes into a new file and uses a different sequence number. You observe the following database corruption issues.

Database	Error	Description
SalesDb2	824	Some data pages that store table row data are torn. All backups for SalesDb2 are lost.
SalesDb3	823	You observe bad checksum issues for data pages that store table row data. All backups are available. No new data has been added to the table since the latest differential backup.

SalesDb3 reports a number of database corruption issues related to error 823 and 824 when reading data pages. You must display the following information about the corrupted pages:

database name

impacted file id

impacted file physical name

impacted page id



event type that identifies the error type

error count

Users report performance issues when they run queries against SalesDb2. You plan to monitor query statistics and execution plans for SalesDb2 by using Query Store. The monitoring strategy must meet the following requirements:

Perform automatic data cleanup when query store disk usage reaches 500 megabyte (MB).

Capture queries based on resource consumption.

Use a stale query threshold value of 60 days.

The query optimizer generates suboptimal execution plans for a number of queries on the Sales table in SalesDb2. You will create a maintenance plan that updates statistics for the table. The plan should only update statistics that were automatically created and have not been updated for 30 days. The update should be based on all data in the table.

Users reports that they encounter the following error when they query SalesDb1: "SQL

Server detected a logical consistency-based I/O error: incorrect checksum (expected:

0x5d672d9b; actual: 0xdd672d98). It occurred during a read of page (1.232) in database ID

12 at offset 0x000000001d0000 in file F:\Databases\MSSQLServer

Databases\MSSQL13.MSSQL2016\MSSQL\DATA\SalesDb1.mdt."

You must restore the impacted page from SalesDb1Full_1.bak. A single backup set named SalesDb1Log.bak was created since the latest full backup operation.

You need to restore the impacted page.

Which four Transact-SQL segments should you use to develop the solution? To answer, move the appropriate Transact-SQL segments from the list of Transact-SQL segments to the answer area and arrange them in the correct order.

Select and Place:



Transact-SQL segments

Answer Area

```
RESTORE LOG SalesDb1 FROM DISK = 'SalesDb1Log.bak' WITH FILE =2, RECOVERY
```

```
BACKUP LOG SalesDb1 TO DISK = 'SalesDb1Log.bak'
```

```
RESTORE LOG SalesDb1 FROM DISK = 'SalesDb1Log.bak' WITH FILE =2, NORECOVERY
```

```
RESTORE DATABASE SalesDb1 FROM DISK = 'SalesDb1Full_1.bak' WITH NORECOVERY
```

```
RESTORE DATABASE SalesDb1 PAGE = '1:232' FROM DISK= 'SalesDb1-Full_1.bak' WITH NORECOVERY
```

```
RESTORE LOG SalesDb1 FROM DISK = 'SalesDb1LOG.bak' WITH FILE =1, NORECOVERY
```



Correct Answer:



Transact-SQL segments

```
RESTORE LOG SalesDb1 FROM DISK
= 'SalesDb1Log.bak' WITH FILE
=2, NRECOVERY
```

```
RESTORE DATABASE SalesDb1 FROM
DISK = 'SalesDb1Full_1.bak'
WITH NORECOVERY
```

Answer Area

```
RESTORE DATABASE SalesDb1 PAGE
= '1:232' FROM DISK= 'SalesDb1-
Full_1.bak' WITH NORECOVERY
```

```
RESTORE LOG SalesDb1 FROM DISK
= 'SalesDb1LOG.bak' WITH FILE
=1, NORECOVERY
```

```
BACKUP LOG SalesDb1 TO DISK =
'SalesDb1Log.bak'
```

```
RESTORE LOG SalesDb1 FROM DISK
= 'SalesDb1Log.bak' WITH FILE
=2, RECOVERY
```

Step 1:

Restore page

Start a page restore with a full database, file, or filegroup backup that contains the page. In the RESTORE DATABASE statement, use the PAGE clause to list the page IDs of all of the pages to be restored.

Step 2:

Restore log file with norecovery. Use the first file (FILE = 1).

Step 3:

Backup the tail-end of the log.

Create a new log backup of the database that includes the final LSN of the restored pages, that is, the point at which the last restored page is taken offline.

Step 4:

Restore database with recovery. Use second file (FILE = 2).

Restore the new log backup. After this new log backup is applied, the page restore is completed and the pages are now usable.

Example:



The following example restores four damaged pages of file B with NORECOVERY. Next, two log backups are applied with NORECOVERY, followed with the tail-log backup, which is restored with RECOVERY. This example performs an online restore. In the example, the file ID of file B is 1, and the page IDs of the damaged pages are 57, 202, 916, and 1016.

```
RESTORE DATABASE PAGE=\\1:57, 1:202, 1:916, 1:1016\\
```

```
FROM
```

```
WITH NORECOVERY;
```

```
RESTORE LOG FROM
```

```
WITH NORECOVERY;
```

```
RESTORE LOG FROM
```

```
WITH NORECOVERY;
```

```
BACKUP LOG TO ;
```

```
RESTORE LOG FROM WITH RECOVERY;
```

References: <https://docs.microsoft.com/en-us/sql/relational-databases/backuprestore/restore-pages-sql-server>

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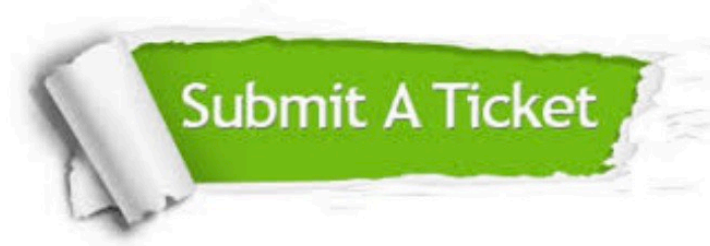
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