



1Z0-054^{Q&As}

Oracle Database 11g: Performance Tuning

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QUESTION 1

Which three statements are true about Statspack usage? (Choose three.)

- A. If both Statspack and AWR are used, they cannot be scheduled to capture snapshots at the same time.
- B. Time Model data cannot be captured by Statspack unless the STATISTICS_LEVEL parameter is set to ALL.
- C. Both Statspack and AWR can be used on the same database only if the Database Diagnostics pack is present.
- D. Statspack can be used to generate a report for a specific instance as well as a specific SQL statement in an instance.
- E. For best performance when running the performance reports, optimizer statistics should be gathered on the Statspack schema.

Correct Answer: CDE

QUESTION 2

You find that the OS utilization is over 40% in your database server. Examine the following set of performance monitoring-related activities:

1.
Investigate the operating system for network transfers, paging, and swapping.
2.
Check the SQL and the transactions submitting the SQL for optimal execution.
3.
Investigate the top SQL by CPU utilization.
4.
Consider rescheduling some work to off-peak hours.
5.
Check whether there are any nondatabase jobs consuming CPU time on the machine.

What is the correct sequence in which the above activities should be performed to diagnose and reduce potential performance issues?

- A. 1,5,3,2,4
- B. 1,2,3,4,5
- C. 2,4,5,3,1
- D. 4,5,3,1,2



Correct Answer: A

QUESTION 3

You work as a DBA in ABC Corp. You are working on an online transaction processing (OLTP) database. The database size has grown to 100 GB. The database will support new applications and more users will be added. Presently, the database uses normal file system storage. Before the new applications are added, you want to move the storage to RAID. You are in consultation with the OS Administrator for finalizing the RAID option for the storage. You have the following requirements for the database:

1) Less mean time to recover (MTTR) 2) Striped for performance 3) Mirrored for safety

Which RAID option would you recommend?

- A. RAID level 0
- B. RAID level 1
- C. RAID level 0 over 1(1+0)
- D. RAID level 1 over 0(0+1)

Correct Answer: C

QUESTION 4

View the Exhibit and examine the content.

```
SQL> SELECT tablespace_name, tablespace_size, allocated_space, free_space FROM DBA_TEMP_FREE_SPACE;
```

TABLESPACE_NAME	TABLESPACE_SIZE	ALLOCATED_SPACE	FREE_SPACE
TEMP_L	157286400	144048128	157220864
TEMP	105906176	105906176	0

```
SQL> SELECT (s.tot_used_blocks/f.total_blocks)*100 as pctused  
2 FROM (SELECT SUM(used_blocks) tot_used_blocks  
3 FROM V$SORT_SEGMENT  
4 WHERE tablespace_name='TEMP_L') s,  
5 (SELECT SUM(blocks) total_blocks  
6 FROM DBA_TEMP_FILES  
7 WHERE tablespace_name='TEMP_L') f;
```

```
PCTUSED  
-----  
0
```

ALLOCATED_SPACE and FREE_SPACE indicate that a large amount of space is allocated to the temporary tablespace that is being used. Which action would reclaim the space and refresh these values?



- A. shrinking the tablespace
- B. closing all the current sessions
- C. restarting the database instance
- D. forcing a checkpoint or waiting for a checkpoint to occur

Correct Answer: A

QUESTION 5

You are working on an online transaction processing (OLTP) database that runs on a machine having multiple CPUs. The database uses normal file system storage. Examine the following initialization parameters and their respective values for the instance: NAME TYPE VALUE ----- dbwr_io_slaves integer 0 db_writer_processes integer 1 filesystemio_options string NONE disk_asynch_io boolean TRUE

The applications perform small, random I/Os in which each foreground process reads a data block into the buffer cache for updates and the changed blocks are written in batches by the DBWR process. You noticed free buffer waits events for your database. To solve the problem, you increased the size of the buffer cache.

But after some time, you notice the same event again. Which three possible actions would you recommend? (Choose three.)

- A. configuring multiple DBWR processes
- B. decreasing the size of the buffer cache
- C. configuring I/O slaves for the DBWR process
- D. configuring instances to make asynchronous I/O available to DBWR
- E. spread data files over multiple disks, controllers, and I/O buses to ensure that there are no hotspots in the I/O subsystem

Correct Answer: ADE

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