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Oracle Database 11g: Performance Tuning

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QUESTION 1

You are working 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. However, 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. Performance is the primary goal of the database because applications are demanding in terms of I/O operations and it should have lower mean recovery time (MTTR) than the current MTTR. Which RAID option would you recommend?

- A. RAID level 0
- B. RAID level 1
- C. RAID level 5
- D. RAID level 1 over 0(0+1)

Correct Answer: B

QUESTION 2

View the Exhibit and examine the content of the V\$MEMORY_RESIZE_OPS view. Which two conclusions can you draw? (Choose two.)

COMPONENT	OPER_TYPE	OPER_MODE	INITIAL_SIZE	TARGET_SIZE	FINAL_SIZE	STATUS
ASM Buffer Cache	STATIC		0	0	0	COMPLETE
PGA Target	STATIC		0	188743680	188743680	COMPLETE
Shared IO Pool	STATIC		0	0	0	COMPLETE
DEFAULT 32K buffer cache	STATIC		0	0	0	COMPLETE
DEFAULT 16K buffer cache	STATIC		0	0	0	COMPLETE
DEFAULT 8K buffer cache	STATIC		0	0	0	COMPLETE
shared pool	STATIC		0	146800640	146800640	COMPLETE
large pool	STATIC		0	4194304	4194304	COMPLETE
java pool	STATIC		0	12582912	12582912	COMPLETE
streams pool	STATIC		0	0	0	COMPLETE
SGA Target	STATIC		0	188743680	188743680	COMPLETE
DEFAULT buffer cache	STATIC		0	8388608	8388608	COMPLETE
KEEP buffer cache	STATIC		0	8388608	8388608	COMPLETE
RECYCLE buffer cache	STATIC		0	0	0	COMPLETE
DEFAULT 2K buffer cache	STATIC		0	0	0	COMPLETE
DEFAULT 4K buffer cache	STATIC		0	0	0	COMPLETE
shared pool	GROW	IMMEDIATE	146800640	150994944	150994944	PENDING
SGA Target	GROW	IMMEDIATE	188743680	192937984	192937984	COMPLETE
PGA Target	SHRINK	IMMEDIATE	188743680	184549376	184549376	COMPLETE
DEFAULT buffer cache	GROW	DEFERRED	8388608	12582912	12582912	COMPLETE
shared pool	SHRINK	DEFERRED	150994944	146800640	146800640	COMPLETE
DEFAULT buffer cache	SHRINK	MANUAL	12582912	8388608	8388608	COMPLETE
large pool	GROW	MANUAL	4194304	8388608	8388608	COMPLETE

- A. Automatic Memory Management (AMM) is enabled.
- B. Automatic Shared Memory Management (ASMM) is enabled but not AMM.



- C. The Shared Pool grew in IMMEDIATE mode to avoid an out-of-memory error.
- D. The Default Buffer Cache grew in DEFERRED mode to avoid an out-of-memory error.
- E. The memory is transferred in IMMEDIATE mode only if there are entirely empty granules available in other components.

Correct Answer: AC

QUESTION 3

A user session executes a query and the plan for the query is shown in the Exhibit as Plan-1. After verifying with the SQL Access advisor, an index is created on the table in the JOB_ID column and the query is executed again. A new plan is generated against the second query shown in the Exhibit as Plan-2. When explaining the plan for the second query, you observe that the optimizer uses the first plan instead of the second. The following parameters are set for the user session: OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES=TRUE
OPTIMIZER_USE_SQL_PLAN_BASELINES=TRUE SQLTUNE_CATEGORY=DEFAULT Why does the optimizer not use the second plan?

Plan-1

Plan hash value: 1445457117

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		6	372	3 (0)	00:00:01
* 1	TABLE ACCESS FULL	EMPLOYEES	6	372	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - filter("JOB_ID"='CLERK')

Plan-2

Plan hash value: 1139333089

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		6	372	2 (0)	00:00:01
1	TABLE ACCESS BY INDEX ROWID	EMPLOYEES	6	372	2 (0)	00:00:01
* 2	INDEX RANGE SCAN	JBIND	6		1 (0)	00:00:01

Predicate Information (identified by operation id):

2 - access("JOB_ID"='CLERK')





- A. because the second plan is not verified
- B. because the second plan is not part of the SQL plan baseline
- C. because the SQLTUNE_CATEGORY parameter is set to DEFAULT
- D. because the explain plan option in the user session does not allow the new plan because SQLTUNE_CATEGORY parameter is set to DEFAULT

Correct Answer: A

QUESTION 4

Examine the following information from the AWR report: Top 5 Timed Events ~~~~~ % Total Event
Waits Time (s) Call Time ----- CPU time 559 88.80 log file parallel
write 2,181 28 4.42 SQL*Net more data from client 516,611 27 4.24 db file parallel write 13,383 13 2.04 db file
sequential read 563 2 .27

Which could cause waits on the db file sequential read event?

- A. too many full table scans
- B. too large a database buffer cache
- C. too many waits occurring while reading multiple blocks synchronously
- D. too many index range scans occurring which refers to blocks not in the database buffer cache

Correct Answer: D

QUESTION 5

You are a DBA in ABC Corp. You are working on an online transaction processing (OLTP) system. The applications running on the database use connection pooling to connect to the database to perform transactions.

The company wants to upgrade the CPU and the memory for the machine on which the production database is running. To test the realistic workload on the new machine with increased CPU and memory, you identified the peak workload

time for the database and captured the workload on the production system. You set up the test machine with the upgraded CPU and memory, and performed the following operations for replay:

- 1) You preprocessed the captured workload.
- 2) You restored the replay database to match the capture database at the start of the workload capture.
- 3) You resolved all external references.
- 4) You set up replay clients.



You have the following replay considerations:

- 1) load testing to be performed
- 2) all the sessions to connect immediately
- 3) user waits between issuing calls to be kept to a minimum What replay options would you choose to accomplish the replay?

A. SYNCHRONIZATION = FALSE, THINK_TIME_SCALE = 0, CONNECT_TIME_SCALE = 0 and THINK_TIME_AUTO_CORRECT = FALSE

B. SYNCHRONIZATION = TRUE, THINK_TIME_SCALE = 100, CONNECT_TIME_SCALE = 0 and THINK_TIME_AUTO_CORRECT = FALSE

C. SYNCHRONIZATION = FALSE, THINK_TIME_SCALE = 100, CONNECT_TIME_SCALE = 100 and THINK_TIME_AUTO_CORRECT = TRUE

D. SYNCHRONIZATION = TRUE, THINK_TIME_SCALE = 100, CONNECT_TIME_SCALE = 100 and THINK_TIME_AUTO_CORRECT = FALSE

Correct Answer: A

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