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Oracle Exadata X3 and X4 Administration

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QUESTION 1

Which two are true about the use of DBFS in a Database Machine environment?

- A. DBFS must be used to bulk load data into a database on the Database Machine if the staging area requires Exadata based shared storage.
- B. DBFS must be used to have a POSIX compliant shared storage solution that is accessible from the database servers on a Database Machine.
- C. DBFS must be used to bulk load data into a production database on the Database Machine.
- D. DBFS must use the DBFS_DG diskgroup for any DBFS store.
- E. DBFS must be used to have a POSIX-compliant Exadata-based shared storage solution.

Correct Answer: AB

Note:

*external tables on DBFS file-systems provide the probably the most high-performance way to bulk load data into your database.

QUESTION 2

You have two very large databases supporting OLTP workloads which run on multiple small-blade style servers in a cluster and which require optimal latency for I/O.

You plan to migrate them to a Database Machine once a capacity planning exercise is finished.

The database backup strategy requires that backups are written directly to media.

High availability requirements state that you must be able to survive node failures at any time.

Which three Database Machine components or features would you recommend to support these requirements?

- A. Use of write back flash cache
- B. Use of smart flash logs
- C. High capacity disks in the Database Machine
- D. High performance disks in the Database Machine
- E. A high capacity expansion full rack
- F. A high performance expansion full rack

Correct Answer: BDE

Explanation: B: The Exadata Smart Flash Cache feature of the Exadata Storage Server Software intelligently caches database objects in flash memory, replacing slow, mechanical I/O operations to disk with very rapid flash memory operations.



QUESTION 3

You are evaluating the performance of a SQL statement that accesses a very large table, and have run the following query producing the output shown:

```
SQL> SELECT s.name, m.value/1024/1024 MB FROM V$SYSSTAT s, V$MYSTAT m
 2 WHERE s.statistic# = m.statistic# AND
 3 (s.name LIKE 'physical%total bytes' OR s.name LIKE 'cell phys%'
 4 OR s.name LIKE 'cell IO%');
```

| NAME | MB |
|---|------------|
| physical read total bytes | 19047.2266 |
| physical write total bytes | 0 |
| cell physical IO interconnect bytes | 4808.85828 |
| cell physical IO bytes pushed back due to excessive CPU on cell | 0 |
| cell physical IO bytes saved during optimized file creation | 0 |
| cell physical IO bytes saved during optimized RMAN file restore | 0 |
| cell physical IO bytes eligible for predicate offload | 18005.6953 |
| cell physical IO bytes saved by storage index | 0 |
| cell physical IO interconnect bytes returned by smart scan | 3767.32703 |
| cell IO uncompressed bytes | 18005.6953 |

For which two reasons would the "physical read total bytes" statistic be greater than the "cell physical IO bytes eligible for predicate offload" statistic?

- A. There is an index on the column used in the where clause, causing "cell multiblock physical reads" to be requested by the database instance, resulting in additional I/O for blocks in the cells.
- B. The table is an IOT and has an overflow segment, causing "cell multiblock physical reads" to be requested by the database instance, resulting in additional I/O for block in the cells.
- C. There is an uncommitted transaction that has modified some of the table blocks, causing some "cell single block physical reads" to be requested by the database instance, resulting in additional I/O for block in the cells.
- D. The table is an indexed clustered table, causing "cell single block physical reads" to be requested by the database instance, resulting in additional I/O for blocks in the cells.
- E. There are migrated rows in the table, causing some "cell single block physical reads" to be requested by the database instance, resulting in additional I/O for blocks in the cells.

Correct Answer: BE

Note:

* physical read total bytes: the size of the segment to read is known by the database, and must be read entirely from the database's perspective. *cell physical IO bytes eligible for predicate offload: this statistic shows the amount of data which the cell server is able to process on behalf of the database, instead of the database processing and the cell server just delivering blocks. *Cell physical IO bytes eligible for predicate offload --- This number should be high The higher the number more MB/GB is filtered out at the cell level itself rather sending it to the buffer cache to filter the rows.

*In this case, all bytes are processed on the cellserver (cell physical IO bytes eligible for predicate offload=physical read total bytes)

*Cell Offloading: The storage cells are intelligent enough to process some workload inside them, saving the database nodes from that work. This process is referred to as cell offloading.



QUESTION 4

Which is true regarding Enterprise Manager monitoring and configuration?

- A. Agents must be deployed on the- storage servers, in case all the database servers are down.
- B. Monitoring the power distribution units (PDUs) is done by Enterprise Manager agents, but additional ethernet cables are required to connect the PDUs to the internal network switch in the Database Machine
- C. Monitoring the power distribution units (PDUs) is done by Enterprise Manager agents without, any additional network configuration.
- D. Agents may be deployed on the storage servers, in case all the database servers are down.
- E. Monitoring the power distribution units (PDUS) is done by Enterprise Manager agents but additional ethernet cables are required to connect the PDUs to the corporate network switch.

Correct Answer: C

Note:

*The following prerequisites must be met before you can deploy the plug-in:

Set and validate the preferred credentials on all Agents where you want to deploy the plug- in. This is essential in order to deploy the plug-in.

The PDU firmware version must be 1.02 or later.

*This plug-in will be used to monitor PDU\'s actual current value of Phase1, Phase2, and Phase3 and raises appropriate events if they have crossed the different threshold values. Each PDU will have a plug-in instance added to its own OEM

Grid Control agent.

By deploying the plug-in to your Grid Control environment, you gain the following management features:

Monitor PDU targets.

Raise alerts and violations based on thresholds set on monitoring and configuration data.

Provide rich out-of-box metrics and reports based on the gather

Reference:Oracle Enterprise Manager System Monitoring Plug-In Installation Guide for Exadata Power Distribution Unit

QUESTION 5

A read-only application is in development and is using a test database on a Database Machine. You are examining SQL statements from this application in an attempt to determine which ones will benefit from the Exadata Smart scan

capability.

The following is true about the tables used by the application:



1. The data for the tables has just been loaded.
2. There are no applications accessing the tables currently.
3. None of the indexes are compressed or reverse key indexes.
4. The tables use the default organization type data.
5. The only data types for the table are varchar (2), number, or date.
6. The largest number of columns for any table is 29.
7. No access is based on ROWID, or virtual columns.

Which two access paths will always generate either a set of "cell smart table scan" or a set of "cell smart index scan" requested?

- A. Full scans on sorted hash clustered tables executed in parallel
- B. Full table scans on index organized tables executed in parallel.
- C. Full table scans on heap tables executed in parallel
- D. Full scans on index clustered tables executed in parallel
- E. full scans on hash clustered tables executed in serially
- F. fast full scans on B*Tree indexes executed in parallel
- G. full index scans on B*Tree indexes executed in parallel

Correct Answer: BG

Note:

*Exadata is built to efficiently use the resources to return results to the end user. Toward that end it has been designed to offload query tasks to the storage server, when possible, to reduce the amount of data passed to the calling session.

Certain criteria must be met to offload to the storage server:

/Full table or index scans must be used

/Direct path reads must be used to access the data If the first requirement is not met another option can trigger the offloading mechanism:

/Parallel query is in use

*How do you know you've used a Smart Scan? The 'cell smart table scan' wait event or the 'cell smart index scan' wait event will show activity indicating a Smart Scan occurred. Nothing in the execution plan would be displayed to prove a

Smart Scan was used; querying v\$sqlwaitstat would be the only way to confirm that a Smart Scan was implemented.



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