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Oracle Exadata X3 and X4 Administration

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**QUESTION 1**

You plan to migrate a database supporting an anOLTP workload to your Database Machine

This is part of a consolidation project and several other databases already exist on the Database Machine.

Which three Exadata features may help to improve the performance of this OLTP workload?

- A. Hybrid Columnar Compression
- B. I/O Resource Manager
- C. Smart Flash Cache
- D. Smart Flash Log
- E. Smart Scan
- F. Storage Index

Correct Answer: BCD

Explanation: C: OLTP performance benefits with Exadata /(D)Smart flash log for low latency commits / (C)Smart flash cache for low latency reads. KEEP in Flash for critical objects

QUESTION 2

Consider the following list of software components:

- 1.DCLI
- 2.Management Server (MS)
- 3.ASM Instance
- 4.RDBMS instance
- 5.Restart Server (RS)
- 6.Cellcli
- 7.Cell Server (CELLSRV)
- 8.Diskmon

Identify the location where these software components may run in the standard Database machine deployment.

- A. 3, 4 and 8 run on the database servers; 1, 2, 5, 6 and 7 run on the Exadata Storage servers.
- B. 4 and 8 run on the database servers; 1, 2, 3, 5, 6 and 7 run on the Exadata Storage servers.
- C. 1, 3 and 4 run on the database servers; 2, 5, 6, 7 and 8 run on the Exadata Storage servers.



- D. 3, 4 and 8 run on the database servers; 1, 2, 5, 6 and 7 run on the Exadata Storage servers.
- E. 3, 4 and 8 run on the database servers; 1, 2, 5, 7 and 8 run on the Exadata Storage servers.
- F. 1, 3, 4 and 8 run on the database servers; 1, 2, 5, 7 and 8 run on the Exadata Storage servers.

Correct Answer: B

Explanation: * (not C or not F): Exalogic includes a tool called DCLI (Distributed Command Line Interface) that can be used to run the same commands on all or a subset of compute nodes in parallel.

*

Cellcli(not E): on Exadata Storage Servers.

*

RDBMS instance on database server.

*CELLSRV on Exadata Storage Servers.

*

ASM on Exadata Storage Servers(not D)

After an Oracle ASM instance has been installed on a single-instance Oracle Database or in an Oracle Real Application Clusters (Oracle RAC) environment, the final Oracle ASM configuration can be performed.

QUESTION 3

Which two communication methods are used by which components in the Enterprise manager Architecture for the Database Machine?

- A. SNMP traps for alerts are sent by the storage server ILOM to the storage serverMSprocess
- B. SNMP traps for alerts are sent by the storage serverMSprocess to the storage server ILOM
- C. SNMP traps for alerts are sent by the storage serverILOMto the Enterprise Manageragent.
- D. SNMP traps for alerts are sent by the storage serverMSprocess to the enterprise Manageragent
- E. SNMP traps for alerts are sent by the storage server ILOM to the storage server RS process.

Correct Answer: AD

Explanation: There are two types of server alerts that come from Oracle Exadata Storage Server:

*

(A) For Integrated Lights Out Manager (ILOM)-monitored hardware components, ILOM reports a failure or threshold exceeded condition as an SNMP trap, which is received by MS.

MS processes the trap, creates an alert for the storage server, and delivers the alert via SNMP to Oracle Enterprise Manager 12c.



*

(D) For MS-monitored hardware and software components, MS processes a failure or threshold exceeded condition for these components, creates an alert, and delivers the alert via SNMP to Oracle Enterprise Manager Cloud Control 12c.

Reference: Managing Oracle Exadata with Oracle Enterprise Manager 12c, Oracle White Paper

QUESTION 4

Which two are true about Smart Scan?

- A. a query rewrite may occur to a container table stored in Exadata but will never benefit from Smart scan.
- B. Column projection does not contribute to the performance benefit of Smart Scan
- C. It is possible to offload single row functions to the storage servers.
- D. Some joins can be offloaded to the storage servers.
- E. A query rewrite may occur to a container table stored Exadata, and it will always benefit from Smart Scan.
- F. All joins can be offloaded to the storage servers.

Correct Answer: CD

Explanation: C: With Exadata storage, database operations are handled much more efficiently. Queries that perform table scans can be processed within Exadata storage with only the required subset of data returned to the database server.

Row filtering, column filtering and some join processing (among other functions) are performed within the Exadata storage cells. When this takes place only the relevant and required data is returned to the database server.

D (not F):

*Exadata performs joins between large tables and small lookup tables, a very common scenario for data warehouses with star schemas. Joining large tables and small lookup tables is implemented using Bloom Filters, which are a very

efficient probabilistic method to determine whether a row is a member of the desired result set. *If storage indexes are so great, why doesn't Oracle Exadata use them all the time? The short answer is that they are created and used only when

they will be beneficial. *To use storage indexes, Oracle Exadata queries must use smart scans, so not all types of applications can benefit from storage indexes. Applications with queries that include predicates and perform a lot of full table

scans or fast full scans of indexes--typically those used in data warehousing environments--will benefit greatly from storage indexes. Online transaction processing (OLTP) applications, on the other hand, typically access a small number of

rows through standard indexes and do not perform full table scans, so they may not benefit from storage indexes.

Note:



*Storage indexes reside in the memory of the storage servers--also called storage cells--and significantly reduce unnecessary I/O by excluding irrelevant database blocks in the storage cells.

*To use storage indexes, Oracle Exadata queries must use smart scans, so not all types of applications can benefit from storage indexes.

Incorrect:

Not B: Exadata provides column filtering, also called column projection, for table scans. Only the columns requested are returned to the database server rather than all columns in a table. For example, when the following SQL is issued, only

the employee_name and employee_number columns are returned from Exadata to the database kernel.

SELECT employee_name, employee_number FROM employee_table. For tables with many columns, or columns containing LOBs (Large Objects), the I/O bandwidth saved can be very large. Using both predicate and column filtering

dramatically improves performance and reduces I/O bandwidth consumption. In addition, column filtering also applies to indexes, allowing for even faster query performance.

Reference: Oracle Communications Data Model Implementation and Operations Guide, Exadata Smart Scan Processing and Storage Index

QUESTION 5

Which three are true about Exadata storage server alerts?

- A. A threshold based alert gets cleared automatically when the measured value no longer violates the threshold.
- B. A storage server alert is only ever issued as a warning or at a critical situation.
- C. Storage server alerts are all stateless alerts.
- D. Storage server alerts notifications may be sent using SNMP.
- E. Storage server alerts are all stateful alerts.
- F. Storage server alerts notifications may be sent using SMTP.

Correct Answer: ABD

Incorrect:

Not C, Not E: there are both stateful and stateless alerts

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