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Oracle Exadata X3 and X4 Administration

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**QUESTION 1**

Which type of network traffic is transported over the internal InfiniBand network in a Database Machine?

- A. IDB protocol traffic only
- B. Both Clustered ASM and RAC database instance traffic
- C. Clustered ASM Instance traffic only
- D. RAC database instance traffic only
- E. IDB protocol traffic, Clustered ASM traffic, and RAC database instance traffic

Correct Answer: A

Explanation: The Exadata software is optimally divided between the database servers and Exadata

cells. The database servers and Exadata Storage Server Software communicate using the iDB ?

the Intelligent Database protocol. iDB is implemented in the database kernel and transparently

maps database operations to Exadata-enhanced operations. iDB implements a function shipping

architecture in addition to the traditional data block shipping provided by the database. iDB is

used to ship SQL operations down to the Exadata cells for execution and to return query result

sets to the database kernel. Instead of returning database blocks, Exadata cells return only the

rows and columns that satisfy the SQL query. Like existing I/O protocols, iDB can also directly

read and write ranges of bytes to and from disk so when offload processing is not possible Exadata operates like a traditional storage device for the Oracle Database. But when feasible, the

intelligence in the database kernel enables, for example, table scans to be passed down to execute

on the Exadata Storage Server so only requested data is returned to the database server. iDB is built on the industry standard Reliable Datagram Sockets (RDSv3) protocol and runs over

InfiniBand. ZDP (Zero-loss Zero-copy Datagram Protocol), a zero-copy implementation of RDS, is used to eliminate unnecessary copying of blocks. Multiple network interfaces can be used on the database servers and Exadata cells. This is

an extremely fast low-latency protocol that minimizes the number of data copies required to service I/O operations.

Note:

*The Database Machine uses a state of the art InfiniBand interconnect between the servers and storage. Each database server and Exadata cell has dual port Quad Data Rate (QDR) InfiniBand connectivity for high availability.

*The same InfiniBand network also provides a high performance cluster interconnect for the Oracle Database Real



Application Cluster (RAC) nodes.

Note:

*An InfiniBand network allows you to connect multiple Oracle Exadata Database Machines to form a larger single system image configuration; each InfiniBand link provides 40 Gigabits of bandwidth?any times higher than traditional storage or server networks

QUESTION 2

You plan to migrate an existing production database supporting online transaction processing (OLTP) workloads to the Exadata Database Machine. The database currently supports an application requiring fast response times, which satisfies stringent requirements, and most of the application queries use index access to the tables in the application schema.

For which case would you consider dropping indexes to allow Smart Scans to occur?

- A. Drop non-constraint indexes if Smart Scan occurs instead of an index access path on the corresponding table.
- B. Drop non-constraint indexes if Smart Scan performs better than index unique scans on the corresponding table.
- C. Drop non-constraint indexes if Smart Scan performs better than index range scans on the corresponding table.
- D. Drop non-constraint Indexes if Smart Scan performs better than any index scans on the corresponding table.

Correct Answer: D

QUESTION 3

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 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 must be true for Smart Scans to be done?

- A. Executing a query in parallel
- B. Setting `_serial_direct_read=true` in the session issuing the SQL statements
- C. Having direct path reads used at run time
- D. Having a 4 megAU size for the ASM diskgroup containing the tablespace in which tables accessed by a query are stored



E. Cell_offload_process = true for the ASM diskgroup containing the tablespace in which tables accessed by a query are stored.

F. cell.smart_scan_capable=true for the ASM diskgroup containing the tablespace in which tables accessed by a query are stored.

Correct Answer: ACF

F:ASM Diskgroup has an attribute: cell.smart_scan_capable ?Must be set to TRUE for Smart Scans to work

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