



# 1Z0-027<sup>Q&As</sup>

Oracle Exadata X3 and X4 Administration

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## QUESTION 1

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 transactionprocessing (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

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## QUESTION 2

Which statement is true about operating systems on database Machine multi-rack configuration consisting of two full racks and one Exadata storage rack?

- A. All Exadata storage servers and all database servers must run the Oracle Linux O/S and X3-8 database server may run the Oracle Solaris O/S.
- B. All Exadata storage servers must run the Oracle Linux O/S and all database servers within the same cluster must run the Oracle Linux O/s.
- C. All Exadata storage servers must run the OracleLinuxO/S and all database servers within the same cluster must run the same O/s.
- D. All Exadata Storage Servers must run the Oracle Solaris O/S and all database servers within the same cluster must run the same O/S.
- E. All Exadata storage servers in the same cluster must run the same O/S but Exadata Storage Servers in different clusters may run a different O/S.

Correct Answer: D

Note:

\*Oracle Linux or Solaris based database server

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## QUESTION 3

Identify the resource bottleneck for which QoS Management can generate recommendation?

- A. CPU resource bottlenecks
- B. Global Cache resource bottlenecks
- C. I/O resource bottlenecks
- D. Network resource bottlenecks

Correct Answer: B



Note: \*Oracle Exadata QoS Management provides the following benefits: ?Reduces the time and expertise requirements for system administrators who manage Oracle Real Application Clusters (Oracle RAC) resources ?Helps reduce the number of performance outages ?Reduces the time needed to resolve problems that limit or decrease the performance of your applications ?Provides stability to the system as the workloads change ?Makes the addition or removal of servers transparent to applications ?Reduces the impact on the system caused by server failures ?Helps ensure that service-level agreements (SLAs) are met ?Enables more effective sharing of hardware resources ?Protects existing workloads from over committed memory-induced server failures ?Exadata Storage Virtualization ?Exadata provides a rich set of sophisticated and powerful storage management virtualization capabilities that leverage the strengths of the Oracle Database, the Exadata software, and Exadata hardware.

\*When QoS Management is enabled, individual Exadata nodes are protected from memory related failures. The Memory Guard features tracks real-time memory use and should it detect a node has over-committed memory, will prevent new database requests from being sent until the current load is relieved

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#### QUESTION 4

You are in the planning stage of the network configuration for your Database Machine. The requirements are:

- 1.A  
fault-tolerant network, providing higher availability for connections to database instances
- 2.Fault tolerance providing higher availability for connections to perform management functions on the database and storage servers.
- 3.Full monitoring of all Database Machine components using Enterprise Manager

Which three components require external Ethernet network cables to connect your existing network infrastructure to your database machine to satisfy this requirement?

- A.  
Database servers
- B.  
Exadata storage servers
- C.  
InfiniBand storage servers.
- D.  
Power distribution units (PDUs)
- E.  
Cisco Ethernet switch

Correct Answer: ABC

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#### QUESTION 5



Which two are true about Exadata storage server alerts?

- A. Metric alerts are never stateful.
- B. Metrics have no thresholds set on them by default.
- C. SNMP alert notifications can be sent to only one destination.
- D. Metric threshold; if set, will persist across storage server reboots.
- E. SMTP alert notifications must be sent to both ASR manager and Enterprise Manager Agents

Correct Answer: DE

Incorrect:

Not A: there are both stateful and stateless alerts.

Not B: Metrics have defaults.

Not C: An SNMP alert can have multiple destinations.

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