



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

Oracle Exadata X3 and X4 Administration

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### QUESTION 1

You are using Hybrid Columnar Compression for a table stored in a tablespace that is contained in an Exadata-based ASM diskgroup. Identify three statements that correctly explain where the compression and decompression can be done.

- A. Decompression can be done on the database servers.
- B. Compression can be done on the Exadata storage servers.
- C. Compression can be done on the database servers.
- D. Decompression can be done on the Exadata storage servers.

Correct Answer: ABD

Explanation: B:

\*Exadata storage provides an advanced compression technology, Hybrid Columnar Compression, that typically provides 10x, and higher, levels of data compression.

\*The Exadata Storage Server (Exadata storage or Exadata cells) is used as the storage for the Oracle Database in the Database Machine. It runs the Exadata Storage Server

Software that provides the unique and powerful Exadata technology including Smart Scan, Smart

Flash Cache, Smart Flash Logging, IO Resource Manager, Storage Indexes and Hybrid Columnar Compression.

A, D:

\*decompression

/Queries run directly on Hybrid Columnar Compressed data does not require the data to be decompressed

/Data that is required to satisfy a query predicate does not need to be decompressed; only the columns and rows being returned to the client are decompressed in memory

/The decompression process typically takes place on the Oracle Exadata Storage Server in order to maximize performance and offload processing from the database server.

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### QUESTION 2

Which two are true concerning the allocation of I/O resources by the IORM within the CELLSRV process?

- A. Control File I/O is managed automatically at high priority by IORM.
- B. Control File I/O is considered part of the SYSTEM resource Consume group by IORM.
- C. Log Writer I/O to the Smart Flash Log is considered part of the SYSTEM resource consumer group by IORM.
- D. Log Writer I/O to the Smart Flash Log is managed automatically at high priority by IORM.
- E. Database Writer I/O is managed automatically at normal priority by IORM.



F. Database Writer I/O is considered part of the SYSTEM resource consumer group by IORM.

Correct Answer: AE

Explanation: Note:

\*IORM Rules

IORM is only "engaged" when needed.

/ (A)Redo and control file writes always take precedence. / (E)DBWR(database writer)writes are scheduled at the same priority as user IO. /IORM does not intervene if there is only one active consumer group on one database. /Any disk

allocation that is not fully utilized is made available to other workloads in relation to the configured resource plans.

/Background IO is scheduled based on their priority relative to user IO. /For each cell disk, each database accessing the cell has one IO queue per consumer group and three background queues.

/Background IO queues are mapped to "high", "medium", and "low" priority requests with different IO types mapped to each queue.

/If no intradatabase plan is set, all non-background IO requests are grouped into a single consumer group called OTHER\_GROUPS.

Reference:Using IORM with Exadata

### QUESTION 3

You must apply patches and patch bundles in a rolling fashion, if possible, on the components of your Database Machine.

You use RAC for your database and also use Data Guard, having standby database on another Database Machine.

You wish to have scripts that contain the appropriate command to patch your environment.

Your patch bundle is on the first database server and is located at /u01/stage.

You have downloaded the oplan utility to the first database server and run the following:

```
$ORACLE_HOME/oplan/oplangenerateApplySteps /u01/stage
```

Which two are true concerning oplan?

- A. It will generate instructions for patching only storage servers.
- B. It will generate instructions for patching all the components on the Database Machine.
- C. It will generate instructions for patching the RAC Oracle Home on the primary location.
- D. It will generate instructions for patching the Data Guard environment on the standby location.
- E. It will generate instructions for patching the Grid Infrastructure home on the primary location.

Correct Answer: CE



Explanation: Oplan generates instructions for all of the nodes in the cluster.

Note:

\*Oplan is a utility that facilitates you with the application of bundle patches on Exadata compute nodes via Opatch. This new utility helps you with the patch process by generating step-by-step instructions telling you how to apply a bundle patch in your environment. \*Exadata is much more than a "database-in-a-box." It is a set of compute nodes (think RAC node servers) combined with ultra-fast infiniband (...and 10GB ethernet, and multiple 1GB ethernet) and storage nodes.

Incorrect:

Not D: There is no support for Oracle DataGuard

#### QUESTION 4

Which two may act as building blocks for the creation of two or more griddisks residing on the same physical device and which have more balanced performance characteristics?

- A. griddisk on hard drive-based interleaved celldisks.
- B. griddisk on hard drive-based celldisks consumed by ASM when creating diskgroups using ASM-based intelligent Data Placement (IDP)
- C. griddisk on hard drive-based non-interleaved celldisks.
- D. griddisk on Flash-base celldisks.

Correct Answer: AB

Explanation: A (not C): Interleaved Griddisks mean equally fast Griddisks, whereas with non Interleaved Griddisks (the default) the Griddisks created first are being taken from the outer tracks of the underlying physical disk.

B: Intelligent Data Placement, a feature of ASM that allows placing data in such a way that more frequently accessed data is located close to the periphery of the disk where the access is faster.

#### QUESTION 5

You must drop all celldisks on all the cells in a quarter rack as part of a reconfiguration project, to support normal redundancy interleaving.

Select two actions that describe the operating system (O/S) account on the cells to which you should log in, and the tool that may be used to drop the celldisks.

- A. To the CELLMONITOR account using CELLCLI interactively on each cell.
- B. To CELLADMIN account calling CELLCLI on all cells using DCLI
- C. To either the CELIMONITOR or the CELLADMIN account calling CELLCLI on all cells using DCLI
- D. To the CELLMONITOR account calling CELLCLI on all cells using DCLI
- E. To the CELLADMIN account using CELLCLI interactively on each cell



F. To either the CELLMONITOR or CELLADMIN account calling interactively on each cell

Correct Answer: BE

Note:

\*Each Exadata Storage cell can be monitored, configured, and maintained using the cellcli command line interface. To invoke the CLI, simply login to the Exadata cell as cellmonitor, celladmin, or root, and type "cellcli". Within cellcli, a wide range of commands can be invoked to monitor the cell.

\*While connected to cellcli as the Linux account celladmin, you can perform all cellcli commands except calibrate.

While logged into the cell server as cellmonitor, you can do any "read-only" commands; you cannot change any configuration or attributes.

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