



1Z0-027^{Q&As}

Oracle Exadata X3 and X4 Administration

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**QUESTION 1**

Your customer wants you to partition the database and storage grids in his X3-2 full rack, creating database clusters and two storage grids.

One cluster will be used for production and should consist of 6 database servers and 11 cells from the first storage grid.

The other cluster will be used for test and development, and should consist of 2 database servers and 3 cells from the second storage grid.

The storage must be partitioned so that the cells are visible only to the appropriate database servers based on the description above.

What must be done to achieve this?

- A. Configure Exadata realms using Oracle ASM scoped security mode.
- B. Configure Exadata realms using Database scoped security mode.
- C. Edit the CELLIP.ORA file on each database server to contain IP addresses of cells in the storage grid associated with cluster to which that database server belongs.
- D. Edit the CELLINIT.ORA file on each database server to contain IP addresses of cells in the storage grid associated with the cluster to which that database server belongs.
- E. Edit the CELLIP.ORA file on each database server to contain IP addresses of database servers which are allowed access to specific cells in the same storage grid.
- F. Edit the CELLIP.ORA file on each cell to contain IP addresses of database servers in the database server grid that are associated with the storage grid to which that cell belongs.

Correct Answer: C

Explanation: cellip.ora

The cellip.ora is the configuration file, on every compute node, that tells ASM instances which cells are available to this cluster.

Here is a content of a typical cellip.ora file for a quarter rack system:

```
$ cat /etc/oracle/cell/network-config/cellip.ora
```

```
cell="192.168.10.3"
```

```
cell="192.168.10.4"
```

```
cell="192.168.10.5"
```

Now that we see what is in the cellip.ora, the grid disk path, in the examples above, should make more sense.

Note:

*cellinit.ora decides which network takes storage traffic. *cellip.ora - list of cells, new cells can be added dynamically without shutdown

**QUESTION 2**

Identify three valid configuration options that can be implemented during the initial configuration process of a new Database Machine by using the Exadata Deployment Assistant

- A. database character set
- B. size of the RECO ASM diskgroup
- C. size of the DBFS diskgroup
- D. O/S owner mode (standard O/S authentication or role-separated O/S authentication)
- E. RDBMS DBA group name

Correct Answer: BDE

Explanation: D: Determine which OS owner mode to use

QUESTION 3

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

- A. If two consumer groups A and B in the PROD database get 10% and 15% respectively of resource allocation, then the percentage of I/O resource would be the same if they got 20% and 30% respectively, provided that the category plans and inter database plans are unchanged, and consumer groups A and B are still mapped to the same category.
- B. If two consumer groups C and D in the PROD database get 10% and 15% respectively of resource allocation, then the percentage of I/O resource would be the same if they still got 10% and 15% respectively and were remapped to a different category by the DBA, provided that the category plans and interdatabase plans are unchanged.
- C. If two consumer groups P and Q in the PROD database get 20% and 10% respectively of resource allocation, then the percentage of I/O resource would be the same if they got 10% and 5% respectively, and the interdatabase plan has changed, provided that the category plan is unchanged, and consumer groups A and B are still mapped to the same categories.
- D. Log Writer I/O and Control File I/O are high priority I/O managed automatically by IORM.
- E. Database Writer I/O is considered to be the highest priority I/O and is managed based on attributes of the IORM plan.

Correct Answer: CD

Explanation: *(not A, Not B) Rules in an interdatabase resource plan specify allocations to databases, not consumer groups.

*IORM Rules IORM is only "engaged" when needed. / (D) Redo and control file writes always take precedence. / (Not 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



Note: *Use IORM metrics to track I/O load per Consumer Group (IOPS, MBPS, disk utilization %) I/O throttling per Consumer Group

Reference:Using IORM with Exadata

QUESTION 4

You have altered an index supporting a constraint to be invisible on a large read only data warehouse table, to determine if Smart Scan operations will be fast enough to satisfy your performance requirements.

Given the results of your testing, you consider dropping the index.

Which two statements are true?

- A. You must retain the index and set the constraint to DISABLE NOVALIDATE RELY to enforce the constraint
- B. You may drop the index and use a constraint with the DISABLE NOVALIDATE RELY flags
- C. You must retain the index and make it visible again for the constraint to be enforced.
- D. You may drop the index and make the constraint invisible, because this is enough for the constraint to be enforced.
- E. You may retain the index, and leave it as invisible, because this is enough for the constraint to be recognized.

Correct Answer: AC

Note:

*You may have noticed that we introduced Invisible Indexes as an 11g New Feature. Their main benefit is that we can test whether performance differs if we would drop an index without actually dropping it. This is particularly useful after an

Exadata Migration because we expect that some conventional indexes migrated are now obsolete and may be substituted by Storage Indexes.

*With making indexes invisible, we can easily check whether indexes are useful without having to drop (and in case recreate) them actually. While this may be of interest for "ordinary" Oracle Databases already, it is particularly a useful feature

for Exadata where we expect some conventional indexes to become obsolete after a migration.

*DISABLE NOVALIDATE RELY means: "I don't want an index and constraint checking to slow down my batch data loading into datawarehouse, but the optimizer can RELY on my data loading routine and assume this constraint is enforced

by other mechanism". This information can greatly help optimizer to use correct materialized view when rewriting queries. So if you don't use materialized views for query rewrite then you can put RELY for all your constraints (or NORELY for

all your constraints) and forget about it.

QUESTION 5

Yesterday, an Exadata storage server flashdisk entered the poor performance state.



This flashdisk is used by flashcache and has a griddisk which is a member of a normal redundancy diskgroup.

Identify the six steps you must perform to replace flashdisk.

- A. Identify the griddisk located on the poorly performing flashdisk and drop it from the associated ASM diskgroup.
- B. Verify that the griddisk located on the poorly performing flashdisk has been successfully dropped from the associated ASM diskgroup.
- C. Drop the flashcache on all cell.
- D. Safely power off the cell containing the poorly-performing flashdisk.
- E. Replace the poorly performing flashdisk.
- F. Power up the cell containing the replaced flashdisk and activate all griddisks.
- G. Recreate the flashcache on the cell using all flashdisks.
- H. Create a new griddisk on the replaced flashdisk.
- I. Add the griddisk back into the ASM diskgroup to which it belonged.

Correct Answer: ADEFHI

Answer: A,D,E,F,H,I

Note:

*The default way to deal with the Flash Storage is to use it completely as Flash Cache. You may think of Flash Cache as a prolongation of the Database Buffer Cache. It is populated automatically by the system with objects deemed useful to

cache them.

*The second possibility to deal with the Flash Storage is to take a part of it for building ASM diskgroups upon. All files on these ASM diskgroups will then reside permanently on Flash Storage:

```
CellCLI> drop flashcache
```

```
Flash cache exa5cel01_FLASHCACHE successfully dropped
```

```
CellCLI> create flashcache all size=100g
```

```
Flash cache exa5cel01_FLASHCACHE successfully created
```

```
CellCLI> create griddisk all flashdisk prefix=flashdrive
```

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