



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

Oracle Exadata X3 and X4 Administration

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### QUESTION 1

Identify two valid reasons for creating multiple griddisks on a Single celldisk.

- A. To segregate storage into multiple pools with different performance characteristics
- B. To facilitate normal or high redundancy ASM diskgroups
- C. To enable disk mirroring for the system area
- D. To segregate storage into multiple pools that can be assigned to different databases
- E. To segregate storage into multiple pools that can be assigned to different resource consumer groups in the same database.

Correct Answer: BD

Explanation: Creating multiple grid disks per cell disk allows you to create multiple pools of storage on the same Exadata Storage Server. The multiple grid disks can be assigned to separate ASM diskgroups, which can be provisioned to

different databases.

Note:

\*Celldisks are the third layer of abstraction. It was introduced to enable interleaving in the first place

\*Griddisks are the fourth layer of abstraction, and they will be the Candidate Disks to build your ASM diskgroups from.

\* The first grid disk created on the cell disk will allocate space from the outer tracks and move towards the inner tracks, reserving the number of tracks that correspond to the size of the grid disk. This grid disk provides the fastest performance since the outer tracks of a hard disk provide the best read/write performance. The next grid disk you will create starts from the tracks where the first grid disk ends, and this process repeats until you exhaust all the space on the cell disk or you are done creating the grid disks.

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### QUESTION 2

You plan to monitor the status of the motherboard, memory, power, fans, and network cards on the database nodes in your Database machine using Enterprise Manager. Where must you set the thresholds for these hardware components and why to assure that sensor readings, faults any related alerts, are visible in Enterprise Manager?

- A. Set thresholds in ILOM and in Enterprise Manager because they are not preset anywhere and must be set in both places
- B. Set thresholds only in ILOM because they are not preset anywhere but need only be set in ILOM.
- C. No thresholds need be set because they are preset in the ILOM and in Enterprise Manager.
- D. No thresholds needho set because they are preset in the ILOM and these are sufficient for monitoring.

Correct Answer: D

Note:



\* The ILOM management interface is also integrated with Oracle Enterprise Manager Ops Center.

\*ILOM Features and Functionalityinclude:

Remote hardware monitoringwhich include:

Monitor customer-replaceable units (CRUs) and fieldreplaceable units (FRUs), including power supplies, fans, hostbus adapters (HBAs), disks, CPUs, memory, and motherboard \*The ILOM-based service processor (SP) receives error

telemetry about error events that occur within the major system components on the host (CPU, memory, and I/O hub) and the environmental subsystem within the chassis (such as fans, power supplies, and temperature). The components

and conditions are then diagnosed as fault events and captured in the ILOM event log.

### QUESTION 3

You are examiningthe existingIORM configurationon the cells of Database Machine, to see if they require mymodifications based on recent changesto variousworkloads. All seven cellsin your X3-2 half-rackshown thefollowing:

```
CellCLI> list iormplan detail
name:          dmorlcel04_IORMPLAN
catPlan:      name=interactive,level=1,allocation=90
              name=batch,level=2,allocation=80
              name=maintenance,level=3,allocation=50
              name=other,level=3,allocation=50
dbPlan:       name=sales,level=1,allocation=45,flashcache=on,flashlog=on
              name=finance,level=1,allocation=45,flashcache=on,flashlog=on
              name=other,level=1,allocation=10,flashcache=off,flashlog=off
objective:    off
status:       active
```

Which two are true about I/O to the cells using this plan?

- A. I/O requests in the batch category may use flashcache if the I/O is from the sales finance database, and these I/O requests are guaranteed to get 80% of the I/O if the interactive category I/Os use no more than 20%.
- B. I/O requests made by sessions in the marketing database may use flashing and flashcache if no other categories or database or database are using flashing and flashcache at the same time.
- C. I/O requested in the interactive category may use flashdns if the I/O is from the sales or finance databases, and these I/O requests are guaranteed to get 90% of the I/O if the enough I/Os are issued in this category.
- D. I/O requests from the sales database may use flashing regardless of the I/O category.
- E. No I/Os in any category or from any database may use flashing or flashcache because the objective is off.

Correct Answer: DE

Explanation: list iormplan detail

Note:

\*The I/O Resource Manager (IORM) extends the concept of resource groups with a new attribute known as a category. While resource groups allow DBRM to manage resources within a a database, categories provide I/O resource

management among multiple databases.



```
*cellcli> alter iormplan objective=\\'balanced\\'
```

```
-- {balanced | off | low_latency | high_throughput | auto
```

"off" simply turns off the IORM plan\\'s IO metering.

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#### QUESTION 4

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 5

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



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