



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

Oracle Exadata X3 and X4 Administration

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### QUESTION 1

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 2

Which two are Oracle recommendations for media based backups performed for a database running on a Database Machine?

- A. Allocate equivalent number of channels and instances per tape drive.
- B. Perform periodic level 0 backups and daily cumulative level-1 backups.
- C. Use the InfiniBand network between the database server and media server.
- D. Configure Recovery Manager (RMAN) channels to connect to the least loaded instances.
- E. Use InfiniBand network between the media server and the storage servers.



Correct Answer: AC

A: Configure one RMAN channel per tape drive and add tape drives to scale backup rates.

C: Configure the Preferred Network Interface (PNI) to direct the Oracle Secure Backup traffic over the InfiniBand network interface.

Example:

```
ob> lspni (List Preferred Network Interface)
```

```
mediaserver1:
```

```
PNI 1:
```

```
interface: mediaserver1-ib
```

```
clients: dbnode1, dbnode2, dbnode3, dbnode4,
```

```
dbnode5, dbnode6, dbnode7, dbnode8
```

```
PNI 2:
```

```
interface: mediaserver1
```

```
clients: adminserver
```

```
dbnode1:
```

```
PNI 1:
```

```
interface: dbnode1-ib
```

```
clients: mediaserver1
```

Note:

\*Using the Sun ZFS Backup Appliance as an Oracle RMAN backup target for an Oracle Exadata system delivers much faster backup and recovery, enabling organizations to achieve shorter recovery time objectives and shrink backup

windows. The appliance is designed for high sustained read and write I/O performance, and it is connected to the Oracle Exadata system via a high-throughput InfiniBand network fabric.

\*As the only unified storage vendor to support InfiniBand as a storage network for backup and restore operations, Oracle is leading the way with native high-bandwidth interconnects. \*The InfiniBand network provides 40 Gb of bandwidth per

port between the database servers, storage cells, and the Sun ZFS Backup Appliance. Backup and restore operations can be automatically parallelized across all database nodes, Oracle Exadata storage cells, Sun ZFS Backup Appliance channels, and controllers.

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### QUESTION 3

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
```

---

#### 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.

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## QUESTION 5

What is the benefit of bonding the client access network configuration?

- A. Improved performance
- B. Improved reliability
- C. Both improved performance and reliability
- D. A Single Client Access Name (SCAN)
- E. Improved monitoring

Correct Answer: C

Explanation: The network ports can be connected directly between the components or the ports can be bonded together



to form a logical interface. The bonded ports can be configured for load balancing, fault tolerance, and better network utilization

Reference:Oracle Exadata Database Machine -Backup and Recovery Sizing:Tape Backups

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