



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

Oracle Exadata X3 and X4 Administration

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**QUESTION 1**

In which two locations should files be staged, to be loaded using externaltables into a database on a Database Machine?

- A. On a dbfs file system stored in a staging database on the Database Machine
- B. On an Exadata-based ACFS file system on the Database Machine
- C. On an nfs file system mounted on a database server where the external table will be accessed.
- D. On local storage on one or more cells that are accessible to the database server where the load will be performed.

Correct Answer: CD

Explanation: Prepare a Temporary File System The Oracle E-Business Suite Rapid Install creates a file system based Oracle Database release

11.1.0.7 database, and it cannot install directly to a database that uses Oracle ASM. Therefore it requires non-Exadata storage of about 55 GB and an additional 50 GB of storage for the install staging area for a total of 105 GB. The file system to be used for the database node file system and the stage area can either use the database machine local storage or an NFS mounted file system.

Reference:Installing Oracle E-Business Suite Release 12 with the Oracle Exadata Database Machine

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**QUESTION 2**

Which two communication methods are used by which components in the Enterprise manager Architecture for the Database Machine?

- A. SNMP traps for alerts are sent by the storage server ILOM to the storage serverMSprocess
- B. SNMP traps for alerts are sent by the storage serverMSprocess to the storage server ILOM
- C. SNMP traps for alerts are sent by the storage serverILOMto the Enterprise Manageragent.
- D. SNMP traps for alerts are sent by the storage serverMSprocess to the enterprise Manageragent
- E. SNMP traps for alerts are sent by the storage server ILOM to the storage server RS process.

Correct Answer: AD

Explanation: There are two types of server alerts that come from Oracle Exadata Storage Server:

\*

(A)For Integrated Lights Out Manager (ILOM)-monitored hardware components, ILOM reports a failure or threshold exceeded condition as an SNMP trap, which is received by MS.

MS processes the trap, creates an alert for the storage server, and delivers the alert via SNMP

to Oracle Enterprise Manager 12c.



\*

(D) For MS-monitored hardware and software components, MS processes a failure or threshold exceeded condition for these components, creates an alert, and delivers the alert via SNMP to Oracle Enterprise Manager Cloud Control 12c.

Reference: Managing Oracle Exadata with Oracle Enterprise Manager 12c, Oracle White Paper

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### QUESTION 3

Which type of network traffic is transported over the internal InfiniBand network in a Database Machine?

- A. IDB protocol traffic only
- B. Both Clustered ASM and RAC database instance traffic
- C. Clustered ASM Instance traffic only
- D. RAC database instance traffic only
- E. IDB protocol traffic, Clustered ASM traffic, and RAC database instance traffic

Correct Answer: A

Explanation: The Exadata software is optimally divided between the database servers and Exadata cells. The database servers and Exadata Storage Server Software communicate using the iDB ? the Intelligent Database protocol. iDB is implemented in the database kernel and transparently maps database operations to Exadata-enhanced operations. iDB implements a function shipping architecture in addition to the traditional data block shipping provided by the database. iDB is used to ship SQL operations down to the Exadata cells for execution and to return query result sets to the database kernel. Instead of returning database blocks, Exadata cells return only the rows and columns that satisfy the SQL query. Like existing I/O protocols, iDB can also directly read and write ranges of bytes to and from disk so when offload processing is not possible Exadata operates like a traditional storage device for the Oracle Database. But when feasible, the intelligence in the database kernel enables, for example, table scans to be passed down to execute on the Exadata Storage Server so only requested data is returned to the database server. iDB is built on the industry standard Reliable Datagram Sockets (RDSv3) protocol and runs over InfiniBand. ZDP (Zero-loss Zero-copy Datagram Protocol), a zero-copy implementation of RDS, is used to eliminate unnecessary copying of blocks. Multiple network interfaces can be used on the database servers and Exadata cells. This is an extremely fast low-latency protocol that minimizes the number of data copies required to service I/O operations.



Note:

\*The Database Machine uses a state of the art InfiniBand interconnect between the servers and storage. Each database server and Exadata cell has dual port Quad Data Rate (QDR) InfiniBand connectivity for high availability.

\*The same InfiniBand network also provides a high performance cluster interconnect for the Oracle Database Real Application Cluster (RAC) nodes.

Note:

\*An InfiniBand network allows you to connect multiple Oracle Exadata Database Machines to form a larger single system image configuration; each InfiniBand link provides 40 Gigabits of bandwidth?any times higher than traditional storage or server networks

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#### QUESTION 4

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 databases 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

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## QUESTION 5

You configuring has two half racks, one with high capacity disks and other with high performance disks and high capacity expansion half rack.

There are two RAC clusters, one on each half rack, which have separate storage grids, each consisting of some of the storage servers in the configuration.

You are planning your deployment of Enterprise Manager to monitor all the components of this multi-rack Database Machine, and must provide for high availability of the monitoring infrastructure.

If the host running the agent which has database machine targets bound to it fails, the monitoring of these targets must be another agent.

Which two are true regarding the configuration used to support this?

- A. Enterprise manager support must be deployed to only one Enterprise Manager Agent in each cluster.
- B. A secondary agent must be deployed on a database server in the same cluster as the server hosting the primary agent.
- C. Enterprise Manager support must be deployed to all Enterprise Manager Agents in each cluster.
- D. A secondary agent may be deployed on a database server in a different cluster than the server hosting the primary agent.
- E. A secondary agent must be deployed on a database server in a different cluster than the server hosting the primary agent.
- F. Enterprise Manager support must be deployed to at least two Enterprise Manager Agents in each of the two RAC clusters.

Correct Answer: AD

Note:

\*Instructions for configuring a high availability solution for the Exadata Storage cell or any other Exadata plug-in are documented in the Oracle Database Machine Monitoring Best Practices (Doc ID 1110675.1) document located in My



Oracle

Support \*High Availability for Plug-Ins

Normally a plug-in target is bound to a specific agent. If the agent is down, the target cannot be monitored. A procedure exists to facilitate target failover to a secondary agent.

\*The Enterprise Manager agent must be deployed to all compute nodes of the Exadata Database Machine.

\*The Oracle ILOM plug-in monitors the Oracle ILOM service processor in a compute node for hardware events and records sensor data to the Oracle Enterprise Manager Repository.

The ILOM plug-in is deployed to the Enterprise Manager (EM) Agent on the first compute node in an Oracle Database Machine, and only that EM agent communicates with the EM Management Server and Repository for all ILOM database

server service processors in the Oracle Database Machine.

\*OEM Agent and Exadata Plug-ins

1. OEM Agent and Plug-Ins are deployed under Oracle Home
2. Agent incorporates additional functionality in Plug-In
3. Agent and Plug-in DB Server on Exadata DBM
3. Agent and Plug-in communicates with Storage Server
4. Plug-Ins are available for monitoring all Exadata hardware components
5. OEM Agent communicates with the OEM

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