



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

Oracle Exadata X3 and X4 Administration

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### QUESTION 1

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 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 three are true about Exadata storage server alerts?

- A. A threshold based alert gets cleared automatically when the measured value no longer violates the threshold.
- B. A storage server alert is only ever issued as a warning or at a critical situation.
- C. Storage server alerts are all stateless alerts.
- D. Storage server alerts notifications may be sent using SNMP.
- E. Storage server alerts are all stateful alerts.
- F. Storage server alerts notifications may be sent using SMTP.

Correct Answer: ABD

Incorrect:

Not C, Not E: there are both stateful and stateless alerts

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### QUESTION 4

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 5

You are monitoring and evaluating a create index statement on your Database Machine and have run the following query after executing the statement, providing the output. Shown:

```
SQL> SELECT DISTINCT event, total_waits, time_waited/100 wait_secs,
2 average_wait/100 avg_wait_secs
3 FROM V$SESSION_EVENT e, V$MYSTAT s
4 WHERE event LIKE 'cell%' AND e.sid = s.sid;
```

EVENT	TOTAL_WAITS	WAIT_SECS	AVG_WAIT_SECS
cell list of blocks physical read	1	0	.0006
cell single block physical read	1349704	683.94	.0005
cell smart table scan	9191	3.29	.0004

Select two reasons why the statement would have produced so many "cell single block physical read" waits compared to "cell smart table scan" waits.

- A. There are huge numbers of migrated rows in the table on which the index is being built.
- B. There is an uncommitted transaction that has modified one block of the table on which the index is being built, in each cell.
- C. There is a transaction that has modified one block of the table on which the index is being built in each cell, which committed after the create index began.
- D. There are huge numbers of chained rows in the table on which the index is being built.
- E. There is a ROWID column in the table on which the index is being built.

Correct Answer: AD

Explanation: A: It could be that row migration.



D:It could be that row migration or chained rows could cause it.

Note:

\*Some facts about scans:

Scans exists in "OLTP" systems

Exadata smart scan requires a direct path read.

A direct path read is chosen at runtime based on internal heuristics The STORAGE clause in an explain plan doesnt necessarily mean you will perform a smart scan.

\*The buffer caching in certain "OLTP" environments can occasionally induce conventional reads when smart scan is faster.

\*Typically see cell multiblock physical read instead of cell smart table scan waits

\*No one-size-fits-all solution can be given here but it is very fixable.

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