



1Z0-070^{Q&As}

Oracle Exadata X5 Administration

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QUESTION 1

Which three are sources for alerts from storage servers in an X5 Database Machine?

- A. Software errors reported by the MS process on the storage servers
- B. Hardware sensor alerts reported by the CELLSRV process on the storage servers
- C. Software errors reported by the RS process on the storage servers
- D. Hardware sensor alerts detected by the ILOM on the storage servers
- E. Metrics that have administrator-defined thresholds on the storage servers

Correct Answer: ABE

Explanation:

AB: The Management Server (MS) process receives the metrics data from CELLSRV, keeps a subset of metrics in memory, and writes to an internal disk-based repository hourly. In addition, the MS process can generate alerts for important storage cell hardware or software events.

Incorrect Answers:

C: The Restart Server (RS) process is used to start up and shut down the CELLSRV and MS processes. It also monitors these services to check whether they need to be restarted.

References: <http://www.oracle.com/technetwork/articles/servers-storage-admin/monitor-exadata-em122291964.html>

QUESTION 2

Which two statements are true about data paths used during RMAN backup and restore operations when media management servers use InfiniBand to connect to an X5 Database Machine?

- A. During backups, data blocks are always read from Smart Flash Cache by cellsv.
- B. During restores, data blocks read from the media are sent to a database server that sends the blocks to cellsv to be written.
- C. During backups, data blocks are read by cellsv and sent to a database server, which sends the blocks to the media manager to be written to media.
- D. During backups, data blocks are read by cellsv and sent directly to the media manager to be written to media.
- E. During restores, data blocks read from the media are sent directly to cellsv to be written.

Correct Answer: DE

Explanation:

The fastest database backup is achieved via InfiniBand.



1.

Get dedicated Media Servers that connect to tape library

2.

Offers backup rates of up to 12GB/sec

RMAN does not back up directly to tape. However, it will integrate with media management software such as Oracle Secure Backup and utilize their capabilities to manage tape libraries.

Exadata Database Machine: The Database Machine contains the databases that need to be backed up. Oracle RMAN is the only mechanism to back up the databases that utilize Exadata Storage Servers as the storage. RMAN processes run on the database servers and interact with the Oracle Secure Backup (OSB) agent, which further interacts with the media management software and enables RMAN to communicate with the tape library.

References: http://apprize.info/data/oracle_4/6.html

QUESTION 3

Which two statements are true regarding the use of Auto Service Request (ASR) with an X6 Database Machine?

- A. The database server ILOMs must use SMTP over the management network for notifications to ASR Manager.
- B. The database server ILOMs must have SNMP traps configured to use the management network for notifications to ASR Manager.
- C. The storage server ILOMs must have SNMP traps configured to use the management network for notifications to ASR Manager.
- D. The database server MS process must have SNMP traps configured to use the management network for notifications to ASR Manager.

Correct Answer: BC

Explanation:

B: Database Server ILOM plug-in

Monitoring databases and their instances, ASM environments, the Grid Infrastructure, and the host software environment are done by Enterprise Manager in the usual way as these are standard targets. But monitoring the hardware for the database servers requires the ILOM plug-in, as there is no Management Server (MS) on the database servers to receive SNMP traps from the ILOM. The plug-in will receive sensor state and availability data from the ILOM including alerts based on pre-set ILOM thresholds.

C: Exadata Storage Server plug-in extends the monitoring of exadata cells in addition to providing a GUI interface. The plug-in uses an SSH connection to the cellmonitor user on the cells and uses list commands only. This is for interactive monitoring. One may also set thresholds using the plug-in which are distinct from any thresholds set using cellcli utility as the celladmin user. For alerts to be sent to the plug-in, SNMP traps are used as follows:

Cell ILOM alerts are sent to the cell Management Server (MS) via an SNMP trap. The MS then send

SNMP notifications onward to the plug-in.

Cell alerts flagged by MS itself, such as cell thresholds being exceeded, or ADR software alerts, are sent



to the plug-in using SNMP.

References:

<https://dbatrain.wordpress.com/2011/06/>

http://docs.oracle.com/cd/E21659_01/html/E21660/z40015671004046509.html

QUESTION 4

Which three storage components are available after nonvirtualized standard deployment of an X5 Database Machine using high-capacity disks?

- A. mirrored system area on hard disk 0, hard disk 1, and hard disk 2
- B. Exadata Smart Flash Cache using all of the flashdisk space
- C. the DBFS_DG diskgroup with high redundancy
- D. mirrored system area on hard disk 0 and hard disk 1
- E. the RECO_ ASM diskgroup
- F. the DATA_ ASM diskgroup

Correct Answer: CEF

Explanation:

The first two disks of Exadata Storage Server are system disks. Oracle Exadata Storage Server Software system software resides on a portion of each of the system disks. These portions on both system disks are referred to as the system area.

The default configuration on Exadata is to have 3 diskgroups - DATA, RECO, and DBFS_DG.

QUESTION 5

Which four statements are true concerning the configuration or use of Enterprise Manager Cloud Control to monitor and manage Exadata Database Machine components?

- A. Computer nodes forward their SNMP traps to the Management Server process on the same computer node.
- B. Storage nodes forward their SNMP traps to the Management Server process on the same storage node.
- C. Cloud control can monitor and manage a Database Machine compute node expansion rack.
- D. Oracle management agents must only be installed on one storage node in a Database Machine to enable monitoring and management of all storage nodes.
- E. Cloud Control cannot monitor partitioned Exadata Database Machine systems.



F. Cloud Control can monitor and manage a Database Machine storage Expansion rack.

G. Oracle management agents must only be installed on one compute node in a Database Machine to enable monitoring and management of all compute nodes and storage nodes.

Correct Answer: BCFG

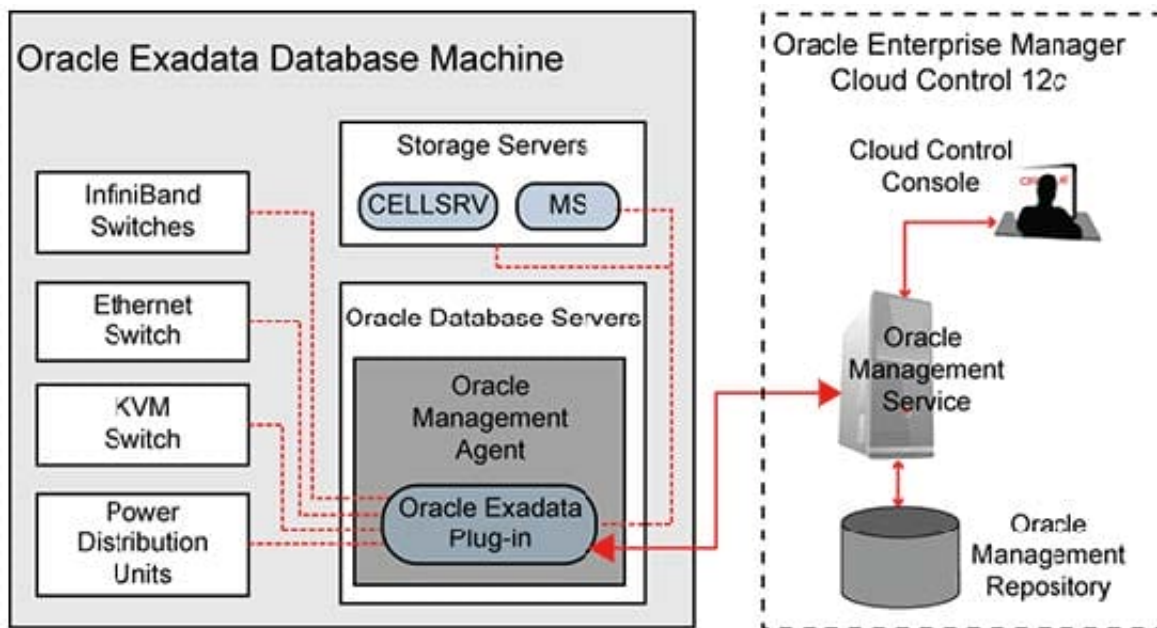
Explanation:

B (not A): Oracle Exadata components—including database and storage servers, switches, and power distribution units (PDUs)—use SNMP to raise alerts and report monitoring information.

Oracle's CellCLI interface is a Java-based framework delivered by the storage cell's management server process (MS) that provides administrative capabilities to your storage server entities.

C: Cloud control can monitor the Exadata Database Machine.

Figure: Oracle Enterprise Manager Cloud Control 12c monitoring architecture. Note the Management Server process (MS) on the Storage servers.



G (not D): Before using Oracle Enterprise Manager Cloud Control 12c with Oracle Exadata, an Oracle Management Agent and Oracle Exadata plug-in must be installed on every Oracle Exadata database server (compute node). This agent monitors software targets, such as the database instances and Oracle Clusterware resources, on the database servers. The plug-in enables monitoring of other hardware components in Oracle Exadata, including the storage servers, switches, and power distribution units.

References: <http://www.oracle.com/technetwork/articles/servers-storage-admin/monitor-exadata-em122291964.html>