



1Z0-070^{Q&As}

Oracle Exadata X5 Administration

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QUESTION 1

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 2

Which two statements are true about the Integrated Lights Out Manager (ILOM) on an Exadata X5 or X6 Database Machine?

- A. ILOM on database servers can use IPMI to send sensor alerts to an Enterprise Manager Agent.



- B. ILOM on a storage server uses SNMP to send sensor alerts to the cellsrv process on the same storage server.
- C. ILOM on a storage server uses IPMI to send sensor alerts to the MS process on the same storage server.
- D. ILOM on a storage server uses SNMP to send sensor alerts to the MS process on the same storage server.
- E. ILOM on database servers can use SNMP to send sensor alerts to an Enterprise Manager Agent.

Correct Answer: CE

Explanation:

C: ILOM supports the Intelligent Platform Management Interface (IPMI), which enables you to monitor and control your server platform, as well as to retrieve information about your server platform.

ILOM supports alerts in the form of IPMI Platform Event Trap (PET) alerts. Alerts provide advance warning of possible system failures.

E: Oracle ILOM supports the Simple Network Management Protocol (SNMP), which is used to exchange data about network activity.

SNMP functionality requires the following two components:

1.

Network management station – A network management station hosts management applications, which monitor and control managed nodes.

2.

Managed node – A managed node is a device such as a server, router, or hub that hosts SNMP management agents that are responsible for carrying out requests from management stations, such as a service processor (SP) running Oracle ILOM. Managed nodes can also provide unsolicited status information to a management station in the form of a trap.

References: <https://docs.oracle.com/cd/E19860-01/E21452/E21452.pdf>

QUESTION 3

You issued these commands to all Exadata Storage Servers in an X6 Exadata Database Machine using dcli:

```
alter iormplan objective = low_latencyalter iormplan active
```

There are no database or category plans defined.

You are encountering disk I/O performance problems at certain times, which vary by day and week.

DSS and Batch workloads perform well some of the time.

Further investigation shows that at times, the workloads are all OLTP I/Os, at other times all batch I/Os, and sometimes a bit of each.



You wish to have disk I/O managed so that performance will be optimized for all workloads.

Which statements would you issue to all Exadata Storage Servers to achieve this?

- A. alter iormplan objective=high_throughput
- B. alter iormplan objective=balanced
- C. alter iormplan objective=low_latency
- D. alter iormplan objective=auto
- E. alter iormplan objective=' '

Correct Answer: D

Explanation:

The supported IORM objectives are auto, low_latency, balanced, and high_throughput. The recommended objective option is auto which allows IORM to continuously monitor the workloads, and select the best mode based on the active workloads currently on the cells.

References: http://docs.oracle.com/cd/E80920_01/SAGUG/exadata-storage-server-iorm.htm

QUESTION 4

You are planning the monitoring configuration for your X5 Database Machine.

Which two components are monitored directly through the use of Exadata-specific Enterprise Manager Plug-Ins?

- A. the database server Clusterware
- B. the storage server ILOM
- C. ASM instances
- D. the database server O/S
- E. the Infiniband switches

Correct Answer: BE

Explanation:

The Oracle Enterprise Manager Grid Control Exadata Monitoring plug-in bundle allows you to monitor the following key components of Exadata machine:

1.

Oracle ILOM: The plug-in monitors the Oracle ILOM card in a database server for hardware events and records sensor data.



2.

InfiniBand Switch: The plug-in enables Enterprise Manager Grid Control to monitor the Oracle DataCenter36 Infiniband Switch.

3.

Avocent MergePoint Unity Switch: The Plug-in enables Enterprise Manager Grid Control to monitor KVM (keyboard, video or visual display unit, mouse) targets. The plug-in provides status of the KVM and the event occurrences like Factory Defaults Set, Fan Failure, Aggregated TargetDevice Status, Power Supply Failure, Power Supply Restored, Reboot Started, Temperature Out of Range on the KVM target.

4.

Cisco Switch: The plug-in enables Enterprise Manager Grid Control to monitor Cisco Switch targets. This plug-in will monitor the Cisco switch's CPU, memory, temperature, network interfaces, system information, fan, and power supply metrics.

5.

Power Distribution Unit: The plug-in will be used to monitor PDU's actual current value of Phase1, Phase2, and Phase3

References: <http://www.oracle.com/technetwork/oem/grid-control/exadata-plug-in-bundle-188771.html>

QUESTION 5

The InfiniBand switches on your X5 Database Machine contain the software version as confirmed using the version command:

```
[root@exampsw -ib2 bin] # versionSUN DCS 36p version: 1.3.3-2Build time: Apr 4 2015 11:15:19SP board info:
Manufacturing Date: 2014.05.05Serial Number: "NCD3X0178" Hardware Revision: 0x0006 Firmware Revision: 0x0102
BIOS version: NOW1R112 BIOS date: 04/24/2014
```

Which two tools are useful for monitoring the InfiniBand switches for fan problems and by which users should they be run?

- A. Run the env_test command on the switches after logging in as the ilom-admin user.
- B. Run the getfanspeed command on the switches after logging in as root.
- C. Run the env_test command on the switches after logging in as root.
- D. Run the showtemps command on the switches after logging in as the ilom-admin user.

Correct Answer: CD

Explanation:

C: Login as root on IB switch and run,

```
# env_test
```

Example output include:



Starting FAN test: Fan 0 not present WARNING Fan 1 running slow rpm 5450 limit 6440 WARNING Fan 2 running slow rpm 5341 limit 6440 WARNING Fan 3 running slow rpm 5341 limit 6440

D: The showtemps command displays internal temperatures for the switch.

The following example shows how to display switch temperatures with the showtemps command.

```
# showtemps Back temperature 29 Front temperature 30 SP temperature 36 Switch temperature 52, maxtemperature 56 All temperatures OK #
```

References: <http://myoraclediary.blogspot.se/2014/04/all-about-infiniband-switches-on-exadata.html>

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