



Oracle Exadata Database Machine X9M Implementation Essentials

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QUESTION 1

You are in the process of upgrading your nonvirtualized X9M-2 Database Machine elastic configuration with 4 database servers and 7 HC storage servers with an additional 4 database servers and 7 HC storage servers.

The new storage servers are called DM01CEL08 through dmoicel14.

After creating 96 new griddisks, you issued this SQL statement:

SQL> ALTER DISKGROUP DATA ADD DISK 2> '0/*/DATA*DM01CEL08*' 3> '0/*/DATA*DM01CEL09*' 4> '0/*/DATA*DM01CEL10*' 5> '0/*/DATA*DM01CEL11*' 6> '0/*/DATA*DM01CEL12*' 7> '0/*/DATA*DM01CEL13*' 8> '0/*/DATA*DM01CEL14*' 9> REBALANCE POWER 512;

How many failgroups if any, will be added to the DATE diskgroup by executing this SQL statement?

- A. 1 consisting of all 96 griddisks
- B. 96 consisting of one griddisk each
- C. 0 because the new griddisks will be added to the existing faiigroups
- D. 12 consisting of seven griddisks each
- E. 7 consisting of 12 griddisks each

Correct Answer: A

Explanation: This SQL statement is adding the new griddisks to the existing diskgroup "DATA" and creating one new failgroup, consisting of all 96 griddisks. The "REBALANCE POWER 512" option tells the system to perform a rebalance operation with a power of 512. It means the system distributes the data evenly across all the disks in the diskgroup using a power of 512.

QUESTION 2

I/O performance of the prod database on your Exadata Database Machine has degraded slightly over the past month. The database has been allocated to the OLTP I/O Resource Management (IORM) category. Which two monitoring tools might be useful in examining I/O performance for the prod database?

A. OS I/O metrics using Enterprise Manager host pages for the storage servers

B. OS I/O metrics using OS tools such as iostat on the database servers

C. I/O-specific dynamic performance views such as v\$iostat_file, v\$iostat_function, and v\$iostat_consumer_group from the prod database instances using SQL *p1us



D. cellcli (or exacli/exadcli) to examine storage server metrics such as database, category, ceiidisk, and griddisk

E. OS I/O metrics using OS tools such as iostat on the storage servers

Correct Answer: CD

Explanation: According to the Oracle documentation1, two monitoring tools that might be useful in examining I/O performance for the prod database are:

cellcli (or exacli/exadcli) to examine storage server metrics such as database, category, ceiidisk, and griddisk (D). This tool can help you monitor the I/O Resource Management (IORM) metrics and identify any bottlenecks or imbalances in the

storage layer.

I/O-specific dynamic performance views such as v\$iostat_file, v\$iostat_function, and v\$iostat_consumer_group from the prod database instances using SQL *p1us ? These views can help you monitor the I/O activity and latency at the file,

function, and consumer group level.

QUESTION 3

Your system administrator reports an amber, non-blinking light on one of your Exadata storage disks. You immediately execute the \\'list physicaldisk where diskType=HardDisk and status=failed DETAIL\\' command on the Exadata storage system and the specified disk is indeed reported as failed. Platinum Support has not been enabled for this system. Enterprise Manager Cloud Control is monitoring the system.

What is the next step that you should perform before you do anything else?

- A. Ask the system administrator to replace the broken disk with a spare.
- B. Check the database to see if any rebalance operations are active.
- C. Call Oracle Support and make an appointment so that the drive can be replaced.
- D. Wait for the email of the failure that Exadata or Enterprise Manager will send.
- E. Download and run the latest exadiag tool.
- F. Wait for a blue light to appear on the disk if the rebalance operation is running.

Correct Answer: F

Explanation: According to Oracle documentation1, Exadata Storage software has a complete set of automated operations for hard disk maintenance, when a hard disk has failed or has been flagged as a problematic disk. It will initiate a rebalance operation to redistribute data across other disks and mark the failed disk with an amber light.

QUESTION 4

A new Exadata Quarter Rack with 2 Database Servers and 3 HC Storage Servers and 3- phase 15kVA PDUs is being installed in a Data Center. However, the Data Center is only providing enough power for a single cable from each PDU.

Which statement is correct?



- A. The installation can go ahead, no change is required.
- B. The installation cannot proceed until two power feeds are available per PDU.
- C. A splitter cable can be used to provide power to all PDU cables.

D. The power cables from the servers to the PDUs can be rearranged inside the rack following OECA guidance to utilize a single PDU power cable.

Correct Answer: A

Explanation: According to the Oracle Exadata Database Machine X9M-2 Data Sheet1, each PDU has two power input cables that can be connected to separate power sources for redundancy. However, if only one power source is available per PDU, then a single cable can be used to provide sufficient power for normal operation. https://www.oracle.com/a/occm/docs/engineered-systems/exadata/exadata-x9m-2-ds.pdf

QUESTION 5

Which are three customer options for hosting the Platinum Services Advanced Support Gateway?

- A. Install on Oracle Database Appliance.
- B. Provide individual x86 64-Bit gateway hardware.
- C. Install in Oracle Virtual Machine with required hardware.
- D. Purchase the recommended x86 64-Bit gateway hardware from Oracle.
- E. Install on Exadata Engineered System.
- Correct Answer: ABD

Explanation: According to Oracle\\'s documentation1, the customer options for hosting the Platinum Services Advanced Support Gateway are: Provide individual x86 64-Bit gateway hardware1 Purchase the recommended x86 64-Bit gateway hardware from Oracle1 Install on Oracle Database Appliance2

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