



1Z0-902^{Q&As}

Oracle Exadata Database Machine X9M Implementation Essentials

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**QUESTION 1**

You are adding a disk expansion kit to a running Exadata X8M Database Machine's Database Servers, and have a filesystem layout that includes:

Filesystem	Mounted on
/dev/mapper/VGExaDb-LVDbSys1	/
/dev/mapper/VGExaDb-LVDbVar1	/var
/dev/mapper/VGExaDb-LVDbHome	/home
/dev/mapper/VGExaDb-LVDbTmp	/tmp
/dev/mapper/VGExaDb-LVDbVarLog	/var/log
/dev/mapper/VGExaDb-LVDbOral	/u01
/dev/mapper/VGExaDb-LVDbVarLogAudit	/var/log/audit

After running the following commands, which command needs to be run to add 20G of space to the filesystem mounted on /u01?

```
# parted -s /dev/sda mkpart primary 240132160s 8189439966s
# parted -s /dev/sda set 3 lvm on
# lvm pvcreate --force /dev/sda3
# lvm vgextend VGExaDb /dev/sda3
```

- A. # lvextend -L +20G --verbose /dev/mapper/VGExaDb-LVDbOral
- B. # xfs_growfs /u01 +20G
- C. # resize2fs +20G /dev/VGExaDb/LVDbOral
- D. # lvextend -L +20G --verbose /dev/VGExaDb/LVDbOral

Correct Answer: A

Explanation: After running the commands above, the filesystem mounted on /u01 is on the logical volume /dev/mapper/VGExaDb-LVDbOral. So, to add 20G of space to the filesystem mounted on /u01, the command that needs to be run is: lvextend -L +20G --verbose /dev/mapper/VGExaDb-LVDbOral. This command will extend the logical volume /dev/mapper/VGExaDb-LVDbOral by 20 GB of space. It is important to note that the option --verbose is used to display the progress of the operation.

QUESTION 2

You have been asked to design a backup solution for an Exadata X9M-2 Quarter Rack with Extreme Flash Storage Servers connected to a new ZFS Storage Appliance ZS7 with 2 Storage Controllers with 100Gb Ethernet cards and 3 Storage Trays. You are using Oracle Exadata Configuration Assistant to validate the rack layout.

1.

Use "Add Equipment" to add the Exadata X9M EF Storage Servers, starting from RU10.



2.

Use drop down to add ZFS Storage Appliance Controllers.

3.

You cannot add ZFS Storage Appliance to an Exadata Rack.

4.

Use "Add Equipment" to add the ZFS Storage Trays, starting from RU1.

5.

Use drop down to add ZFS Storage Trays.

6.

Use "Add Equipment" to add the Exadata X9M Database Servers, starting from RU16.

7.

Use "Add Equipment" to add the Exadata X9M EF Storage Servers, starting from RU1.

8.

Use drop down to add Exadata X9M EF Storage Servers.

9.

Use "Add Equipment" to add the ZFS Storage Controllers, starting from RU27.

10.

Use drop down to add Exadata X9M Database Servers.

11.

Use "Add Equipment" to add the ZFS Storage Trays, starting from RU31. Which of these steps are correct and what is their correct order?

A. 10, 8, 2, 5

B. 4,1, 6, 9

C. 3

D. 10, 8, 9, 11

E. 7,6,9,11

Correct Answer: D

Explanation: The correct order of steps is 10, 8, 9, 11. The 10th step is to use the drop down to add Exadata X9M Database Servers, the 8th step is to use the drop down to add Exadata X9M EF Storage Servers, the 9th step is to use "Add Equipment" to add the ZFS Storage Controllers, and the 11th step is to use "Add Equipment" to add the ZFS Storage Trays. These steps are referenced in the Oracle Exadata Database Machine X9M Implementation Essentials



Official Textbook, which is available online at https://docs.oracle.com/cd/E80437_01/E80437/html/index.html.
<https://docs.oracle.com/en/engineered-systems/exadata-database-machine/dbmin/configuring-exadata.html>

QUESTION 3

You are updating your Exadata X9M-2 Elastic Database Machine with 6 database servers and 12 High Capacity Storage Servers. You will be using patchmgr to apply updates across the entire machine while still maintaining database availability.

Assuming you are driving patchmgr from an external server, which statement is true about the execution phase?

- A. patchmgr must be invoked with the --rolling argument. Each component type must be upgraded independently of the other.
- B. patchmgr cannot apply updates in a rolling manner, you must manually apply patches with the dbnodeupdate and cellupdate tools if high availability is required.
- C. patchmgr will apply patches in component groups consisting of 1 database server and 2 storage servers to minimize disruption.
- D. patchmgr must be invoked with the --rolling argument with all database and storage servers listed in a single input file.

Correct Answer: D

According to Oracle documentation¹², patchmgr is the utility used to update software for Exadata infrastructure components. It can apply patches in a rolling or non-rolling manner depending on the argument and input file provided.

QUESTION 4

You want to monitor how a large production table is accessed. Especially, you are interested to see how the access on that particular table leverages the benefits of the Exadata Platform.

Which two actions are NOT appropriate for that purpose?

- A. YOU query V\$SYSTEM_EVENTS and filter for the event '\cell physical IO interconnect bytes returned by smart scan\\$', associated to your table.
- B. You query v\$segment_statistics and filter for the Object ID of your table from dba_objects and the the column STATISTIC_NAME='\optimized physical reads\\$'.
- C. You query v\$SYSTAT and filter for the statistic '\cell smart table scan\\$', associated to your table.
- D. You run the CellCli-command list activerequest , filtering for the attributes ioReason and objectNumber, that you specify as '\Smart Scan\\$' and the Object ID of your table from DBA_OBJECTS.

Correct Answer: AC

- A. YOU query V\$SYSTEM_EVENTS and filter for the event `cell physical IO interconnect bytes returned by smart scan\\$', associated to your table. This does not show how much data was filtered by Smart Scan, but only how much data was returned after Smart Scan¹².
- C. You query v\$SYSTAT and filter for the statistic `cell smart table scan\\$', associated to your table. This does not show



how much data was filtered by Smart Scan for a specific table, but only for all tables in a session12. <https://www.databasejournal.com/oracle/monitoring-smart-scans-in-oracle-exadata/>

QUESTION 5

Which two activities are supported on the storage servers in an Exadata Database Machine?

- A. changing the root password
- B. upgrading a device driver for hard disks when inserting a replacement disk after a hard disk failure
- C. installing an alternative package manager
- D. upgrading the Storage Server software package using rpm
- E. configuring secure shell user equivalency for the cellmonitor user

Correct Answer: AE

Explanation: According to the web search results¹²³, the storage servers in an Exadata Database Machine are mainly used for processing data at the storage level and offloading some SQL operations from the database servers. Therefore, the two activities that are supported on the storage servers are:

- A. changing the root password
- E. configuring secure shell user equivalency for the cellmonitor user

<https://docs.oracle.com/en/engineered-systems/exadata-database-machine/dbmsso/exadata-introduction.html>

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