



# 1Z0-902<sup>Q&As</sup>

Oracle Exadata Database Machine X9M Implementation Essentials

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### QUESTION 1

Examine this list of software components:

1.  
Oracle KVM Guest
2.  
Oracle Enterprise Manager Agent (OMA)
3.  
ASM instance
4.  
RDBMS instance
5.  
Automatic Diagnostic Repository Command Interpreter (ADRCI)
6.  
CELLCLI
7.  
Cell Server(CELLSRV)
8.  
diskmon
9.  
Restart Server (RS)
10.  
Management Server (MS)

What is the correct location where these software components can run in the standard Exadata Database Machine deployment?

- A. 2, 3, 4, 8, and 10 run on the database servers; 1, 5, 6, 7 and 9 run on the Exadata storage servers.
- B. 1, 2, 3, 4, 9 and 10 run on the database servers; 5, 6, 7, 8, 9, and 10 run on the Exadata storage servers.
- C. 1, 2, 3, 4, 5, 8, 9 and 10 run on the database servers; 5, 6, 7, 9 and 10 run on the Exadata storage servers.
- D. 3, 4, 8, and 10 run on the database servers; 1, 2, 5, 6, 7 and 9 run on the Exadata storage servers.



E. 1, 2, 3, 4, 8 and 9 run on the database servers; 5, 6, 7, 9 and 10 run on the Exadata storage servers.

Correct Answer: C

Oracle KVM Guest: This is a virtual machine that runs on top of Oracle Linux KVM hypervisor. It can be used to run Oracle Database or other applications on Exadata Database Machine<sup>2</sup>. Therefore, it runs on the Database Servers. Oracle Enterprise Manager Agent (OMA): This is a software agent that communicates with Oracle Enterprise Manager Cloud Control and provides monitoring and management capabilities for Exadata Database Machine<sup>2</sup>. Therefore, it runs on both Database Servers and Storage Servers. ASM instance: This is an instance of Oracle Automatic Storage Management (ASM), which is a volume manager and a file system for Oracle Database files. It manages diskgroups that span across multiple Storage Servers<sup>2</sup>. Therefore, it runs on the Database Servers. RDBMS instance: This is an instance of Oracle Database that processes SQL statements and executes transactions. It uses ASM disk groups to store data files, control files, redo log files, etc<sup>2</sup>. Therefore, it runs on the Database Servers. Automatic Diagnostic Repository Command Interpreter (ADRCI): This is a command-line tool that enables you to view diagnostic data stored in the Automatic Diagnostic Repository (ADR). ADR is a file-based repository for database diagnostic data such as trace files, alert logs, etc<sup>2</sup>. Therefore, ADRCI runs on both Database Servers and Storage Servers, depending on where the ADR is located. CELLCLI: This is a command-line interface that enables you to configure and manage Exadata Storage Server Software. It allows you to perform tasks such as creating disk groups, monitoring cell health, applying patches, etc<sup>2</sup>. Therefore, it runs on the Storage Servers. Cell Server(CELLSRV): This is a process that runs on each Storage Server and handles I/O requests from the Database Servers. It implements Exadata Smart Scan , which offloads data-intensive SQL operations from the Database Servers to the Storage Servers<sup>2</sup>. Therefore, it runs on the Storage Servers. diskmon: This is a process that monitors the status of disks and flash devices on each Storage Server. It reports disk failures and performs automatic disk reclamation<sup>2</sup>. Therefore, it runs on the Storage Servers. Restart Server (RS): This is a process that manages automatic restarts of critical processes such as CELLSRV , MS , or OMA in case of failures. It also handles graceful shutdowns and startups of all processes on each server<sup>2</sup>. Therefore, it runs on both Database Servers and Storage Servers. Management Server (MS): This is a process that provides management services for each server such as collecting metrics , logging events , executing commands from CELLCLI , etc<sup>2</sup>. Therefore, it runs on both Database Servers and Storage Servers

## QUESTION 2

You have been notified by your Network Administrator that an upstream switch has been replaced due to a hardware fault. Which command verifies that the client network on your Exadata X9M-2 Database Server is available via both client switches?

- A. `ifconfig -a | grep "re0| re1"`
- B. `./opt/oracle.SupportTools/ibdiagtools/checkbadlinks.p1 --all`
- C. `netstat -rn`
- D. `cat /proc/net/bonding/bondeth0`

Correct Answer: D

Explanation: According to Oracle's documentation<sup>1</sup>, the client network on Exadata X9M-2 Database Server is used for client access to the database servers using Single Client Access Name (SCAN) and Oracle RAC Virtual IP (VIP)

addresses. To verify that the client network is available via both client switches, you can use the command:

```
cat /proc/net/bonding/bondeth0
```

This command displays information about the bondeth0 interface, which is used for the client network on Exadata X9M-2 Database Server<sup>2</sup>. You can check if both interfaces (eth0 and eth1) are active and connected to different switches<sup>3</sup>.



### QUESTION 3

You have been asked to investigate why an Exadata Database Server stopped communicating on the client network for 10 minutes over the past weekend.

Which command would help investigate this?

A. `$_ORACLE_HOME/suptools/tfa/release/tfa_home/bin/tfact1 --from _17:00:00 --to _23:59:00`

B. `# /opt/oracle.SupportTools/ibdiagtools/netcheck/runDiagnostics.pm --from _17:00:00 --to _23:59:00`

C. `# /opt/oracle.ExaWatcher/GetExaWatcherResults.sh --from _17:00:00 --to _23:59:00`

D. `# /opt/oracle.SupportTools/exachk/exachk --from _17:00:00 --to _23:59:00`

Correct Answer: ABCD

Explanation: To investigate why an Exadata Database Server stopped communicating on the client network for 10 minutes over the past weekend, you can use the `GetExaWatcherResults.sh` script to collect and analyze ExaWatcher data for

a specified time range<sup>1</sup>.

Therefore, the command that you should use to investigate this is:

```
/opt/oracle.ExaWatcher/GetExaWatcherResults.sh --from _17:00:00 --to _23:59:00
```

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### QUESTION 4

Which dbmcli command is NOT valid on Exadata X9M?

A. `dbmcli -e "LIST METRICHISTORY WHERE name LIKE '\\DS_.*\\'"`

B. `dbmcli -e "LIST METRICCURRENT WHERE name = '\\DS_TEMP\\' "`

C. `dbmcli -e "LIST IBPORT DETAIL"`

D. `dbmcli -e "LIST ALERTHISTORY WHERE ageInMinutes`

Correct Answer: C

Explanation: The `dbmcli -e "LIST IBPORT DETAIL"` command is not valid on Exadata X9M. According to the Oracle Exadata Database Machine X9M Implementation Essentials Official Text Book [1][2], this command is only valid on Exadata X3 and X4 models. The other three commands are valid on Exadata X9M.

<https://forums.oracle.com/ords/apexds/map/tech/apps-infra/discussion/4342715/monitoring-roce-performance>

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### QUESTION 5

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/cd/E80437_01/E80437/html/index.html).  
<https://docs.oracle.com/en/engineered-systems/exadata-database-machine/dbmin/configuring-exadata.html>

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