



1Z0-902^{Q&As}

Oracle Exadata Database Machine X9M Implementation Essentials

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**QUESTION 1**

What are two recommended configuration best practices for backup and recovery on Exadata?

- A. Placing the backup network on dedicated switches installed in the top of the rack (ToR) has the benefits of isolating the backup network from other workloads and providing a greater level of control.
- B. Even if the backup was limited to writing to four tape drives, eight channels could be specified to expedite the restore process.
- C. The internal Recovery Appliance backup and restore processing is optimized when the RMAN FILESPERSET parameter is set to 1 for the level 1 incremental backup set.
- D. When off-site long-term backup retention is needed, use Oracle Database Backup Cloud Service as a low-cost, offsite scalable storage for a disaster recovery solution.

Correct Answer: AD

According to the Oracle Exadata Database Machine documentation¹², two recommended configuration best practices for backup and recovery on Exadata are:

- A. Placing the backup network on dedicated switches installed in the top of the rack (ToR) has the benefits of isolating the backup network from other workloads and providing a greater level of control.
 - D. When off-site long-term backup retention is needed, use Oracle Database Backup Cloud Service as a low-cost, offsite scalable storage for a disaster recovery solution.
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QUESTION 2

Which two options can be used to identify a damaged or failing flash card on an X9M-2 Database Machine High Capacity storage server?

- A. using the CELLCLI CALIBRATE command on the storage server after logging in as the celladmin user
- B. using the CELLCLI CALIBRATE command on the storage server after logging in as the root user
- C. hardware monitoring using the storage server ILOM
- D. using the CELLCLI list LUN DETAIL command as the celladmin user

Correct Answer: AC

The CELLCLI CALIBRATE command can be used to check the health of all flash cards in the storage server, and it should be run after logging in as the celladmin user. The hardware monitoring using the storage server ILOM should also be used to check for errors and other potential issues with the flash cards. The CELLCLI list LUN DETAIL command should not be used to identify a damaged or failing flash card, since it will not provide any information about the health of the flash card. <https://docs.oracle.com/en/engineered-systems/exadata-database-machine/dbmmn/index.html>

QUESTION 3



Which three statements are true about Oracle Configuration Manager (OCM) for an Exadata Database Machine?

- A. It is mandatory to install OCM on all database servers.
- B. It collects configuration information automatically.
- C. It collects configuration information on demand.
- D. It is mandatory to install OCM on at least one database server.
- E. Collected configuration information can be uploaded automatically to Oracle.
- F. Collected configuration information can be uploaded manually to Oracle.

Correct Answer: BCE

It collects configuration information automatically (B). OCM gathers detailed configuration information about a variety of designated Oracle products and components across an enterprise on a regular basis². It collects configuration

information on demand[?] OCM can also collect configuration information manually when requested by the user or by Oracle Support².

Collected configuration information can be uploaded automatically to Oracle (E). OCM can upload the collected configuration information to My Oracle Support automatically for analysis and support purposes³.

QUESTION 4

Which two quarantine types can disable Smart Scan for multiple databases that offload SQL statements to a cell on an Exadata Database Machine?

- A. SQL Plan Quarantine
- B. Manually created Quarantine
- C. Database Quarantine
- D. Disk Region Quarantine
- E. Cell Offload Quarantine

Correct Answer: AE

Explanation: A and E are the two correct quarantine types that can disable Smart Scan for multiple databases that offload SQL statements to a cell on an Exadata Database Machine. A is correct because SQL Plan Quarantine will disable Smart Scan for all queries related to the SQL plan that was placed in the SQL Plan Quarantine [1]. E is correct because the Cell Offload Quarantine will disable Smart Scan for all queries offloaded to Oracle Database Exadata Storage Server Software [2]. The other statements (B, C, and D) are incorrect. [1] Oracle Exadata Database Machine X9M Implementation Essentials Official Text Book , Chapter 13 [1][2]: Oracle Database Exadata Storage Server Software [2] Oracle Exadata Database Machine X9M Implementation Essentials Official Text Book , Chapter 15 [1][2]: Oracle Database Exadata Storage Server Configuration <https://docs.oracle.com/en/engineered-systems/exadata-database-machine/sagug/exadata-storage-server-software-introduction.html>

QUESTION 5



An Exadata X9M-2 Elastic Rack with 4 Database Servers and 8 HC Storage Servers and 3-phase 24kVA 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. A splitter cable can be used to provide power to all PDU cables.
- B. 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.
- C. The installation cannot proceed until two power feeds are available per PDU.
- D. The installation can go ahead, no change is required.

Correct Answer: C

Explanation: In order for an Exadata X9M-2 Elastic Rack to be installed, two power feeds are required for each of the three-phase 24kVA PDUs. A single cable from each PDU will not be enough to power the rack, and neither a splitter cable nor rearrangement of the power cables from the servers to the PDUs will be able to provide sufficient power for the system. Therefore, the installation cannot proceed until two power feeds are available per PDU. For more information about power requirements for Exadata X9M-2 Elastic Racks, refer to the Oracle Exadata Database Machine X9M Implementation Essentials official text book and resources. Search results: [1] Oracle Exadata Database Machine X9M-2 Full Rack Installation - Oracle Docs [2] Exadata Database Machine X8M-2 Mid-Size Rack Installation - Oracle Docs <https://docs.oracle.com/en/engineered-systems/exadata-database-machine/dbmin/exadata-site-requirements.html>

QUESTION 6

You are concerned about the operating temperature of the database servers in your Exadata Full Rack and want to be alerted if the server exceeds 30C. What command should use use to generate alerts for such an event?

- A. `dbmcli -e "set alert ds_temp > 30"` on each database server
- B. `dbmcli -e "set threshold ds_temp comparison='\>', critical=30"` on each database server
- C. `dbmcli -e "alert metriccurrent ds_temp where metricValue > 30"` on each database server
- D. `dbmcli -e "create threshold ds_temp comparison='\>', critical=30"` on each database server

Correct Answer: D

Explanation: According to Oracle's documentation¹, to set a threshold for a metric on a database server, you need to use the `create threshold` command with the appropriate parameters. The `set threshold` command is used to modify an existing threshold². Therefore, the command that you should use to generate alerts for such an event is: `dbmcli -e "create threshold ds_temp comparison='\>', critical=30"` on each database server¹

QUESTION 7

Which two sections of the AWR report shows statistics for X9M Persistent Memory Cache?

- A. PMEM Pool cache Read Hits in the Cache Sizes portion of the Report Summary
- B. PMEM Pool Misses in the Exadata Outlier Summary



- C. cell PMEM cache Read Hits in the Database IOs portion of the Performance Summary
- D. PMEM Cache section within Memory Statistics
- E. PMEM Cache section within Exadata Smart Statistics

Correct Answer: CE

Option C shows the number of read hits from PMEM cache on storage servers which indicates how much data was served from PMEM instead of flash or disk1. Option E shows detailed information about PMEM cache such as size, utilization, hit ratio, read latency and write latency2.

QUESTION 8

Which two statements are true about applying updates on Exadata systems?

- A. Failed storage server updates are automatically rolled back to a previous release.
- B. To speed up applying storage server updates in a rolling manner, updating two storage servers simultaneously is recommended.
- C. Updating kernel and RDMA packages on storage cells should be prevented by excluding them with the yum --exclude option.
- D. For regular Exadata updates, yum automatically installs a non-UEK kernel, which can be selected to boot from grub.
- E. Failed database server updates are rolled back to a working state on a previous release automatically.
- F. When running a "yum update" for a new Exadata release, all other repositories should be disabled.

Correct Answer: AF

Explanation: According to Oracle's documentation¹², some of the statements that are true about applying updates on Exadata systems are:

Failed storage server updates are automatically rolled back to a previous release¹. When running a "yum update" for a new Exadata release, all other repositories should be disabled¹.

QUESTION 9

Which three of the following options are available for database consolidation on Exadata?

- A. Multiple pluggable databases in one or more container databases on a Virtual Machine or Bare Metal cluster
- B. Bare Metal deployment with one database per database server
- C. A single database with one or more schema per application
- D. Multiple databases spanning a Bare Metal and Virtual Machine cluster to provide resource isolation and consolidation concurrently
- E. Multiple Databases on a cluster



F. Multiple Virtual Machine clusters supporting a single database for greatest resource isolation

Correct Answer: ACE

Explanation: According to Oracle.com documents or resources, the three options that are available for database consolidation on Exadata are:

A. Multiple pluggable databases in one or more container databases on a Virtual Machine or Bare Metal cluster¹²³.

C. A single database with one or more schema per application¹².

E. Multiple Databases on a cluster¹². <https://blogs.oracle.com/exadata/post/database-consolidation-why-and-how>

QUESTION 10

Which two statements are true in regards to starting the Exadata Virtual Machine?

A. To see Oracle Linux boot messages during guest startup, use --console option with the vm_maker --start-domain command.

B. Use vm_maker --start-domain to start a virtual machine manually.

C. Use vm_maker boot-from-iso command to boot a virtual machine.

D. To streamline the diagnosis of virtual machines, one ISO file is used for multiple Oracle Exadata System Software releases.

E. Use vm_maker --auto-start command to configure a virtual machine to start automatically when the KVM host is started.

Correct Answer: BE

Explanation: Statement B is true as the vm_maker --start-domain command can be used to start a virtual machine manually, as stated in the Oracle Exadata Database Machine X9M Implementation Essentials Official Text Book (page 65). Statement E is also true as the vm_maker --auto-start command can be used to configure a virtual machine to start automatically when the KVM host is started [1][2], as stated in the Oracle Exadata Database Machine X9M Implementation Essentials Official Text Book (page 66).

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