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Oracle Exadata X3 and X4 Administration

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**QUESTION 1**

You plan to migrate a database supporting an anOLTP workload to your Database Machine

This is part of a consolidation project and several other databases already exist on the Database Machine.

Which three Exadata features may help to improve the performance of this OLTP workload?

- A. Hybrid Columnar Compression
- B. I/O Resource Manager
- C. Smart Flash Cache
- D. Smart Flash Log
- E. Smart Scan
- F. Storage Index

Correct Answer: BCD

Explanation: C: OLTP performance benefits with Exadata /(D)Smart flash log for low latency commits / (C)Smart flash cache for low latency reads. KEEP in Flash for critical objects

QUESTION 2

Which two are true about the use of DBFS in a Database Machine environment?

- A. DBFS must be used to bulk load data into a database on the Database Machine if the staging area requires Exadata based shared storage.
- B. DBFS must be used to have a POSIX compliant shared storage solution that is accessible from the database servers on a Database Machine.
- C. DBFS must be used to bulk load data into a production database on the Database Machine.
- D. DBFS must use the DBFS_DG diskgroup for any DBFS store.
- E. DBFS must be used to have a POSIX-compliant Exadata-based shared storage solution.

Correct Answer: AB

Note:

*external tables on DBFS file-systems provide the probably the most high-performance way to bulk load data into your database.

QUESTION 3

To troubleshoot a possible hardware problem, you consider moving all disk drives from one Exadata storage server to a



replacement chassis.

You must contain storage availability while performing task.

The Exadata storage server is an X3-8 Database Machine and storage grid is not partitioned.

Which two factors would prevent you from moving the disks from one Exadata storage server to another one?

- A. The existence of an external redundancy ASM diskgroup
- B. The existence of a normal redundancy ASM diskgroup
- C. The existence of an ASM diskgroup with the repair_time attribute set to 0.
- D. The existence of an ASM diskgroup with its compatible.asm attribute set to 10.2.0.0.0
- E. Offline or inactive celldisks in another Exadata server

Correct Answer: AD

Explanation: A:If you want Oracle ASM to mirror files, specify the redundancy level as NORMAL REDUNDANCY (2-way mirroring by default for most file types) or HIGH REDUNDANCY (3-way mirroring for all files). You specify EXTERNAL

REDUNDANCY if you do not want mirroring by Oracle ASM. For example, you might choose EXTERNAL REDUNDANCY if you want to use storage array protection features.

D:Restoring the redundancy of an Oracle ASM disk group after a transient disk path failure can be time consuming. This is especially true if the recovery process requires rebuilding an entire Oracle ASM failure group. Oracle ASM fast mirror

resync significantly reduces the time to resynchronize a failed disk in such situations. When you replace the failed disk, Oracle ASM can quickly resynchronize the Oracle ASM disk extents.

To use this feature, the disk group compatibility attributes must be set to 11.1 or higher.

Incorrect:

Not C:You can set the DISK_REPAIR_TIME disk group attribute to delay the drop operation by specifying a time interval to repair the disk and bring it back online.

Note:

*The redundancy levels are:

/External redundancy

Oracle ASM does not provide mirroring redundancy and relies on the storage system to provide RAID functionality. Any write error cause a forced dismount of the disk group. All disks must be located to successfully mount the disk group.

/Normal redundancy

Oracle ASM provides two-way mirroring by default, which means that all files are mirrored so that there are two copies of every extent. A loss of one Oracle ASM disk is tolerated. You can optionally choose three-way or unprotected mirroring.

/High redundancy

Oracle ASM provides triple mirroring by default. A loss of two Oracle ASM disks in different failure groups is tolerated.



Reference:Administering Oracle ASM Disk Groups

QUESTION 4

You recently upgraded your Exadata image to the latest release; previously you were using 11.2.0.3.

At the same time, you decide to address some performance problems as follows:

You noticed increased latency for the database log writer, especially during the quarterly battery learn cycle on the cells.

You have complaints of erratic performance from certain write-intensive applications.

Which two actions could improve performance in these areas?

- A. Enable write-back flashcache by setting lunWriteCacheMode to Write Back Mode.
- B. Use ALTER TABLE in the database to set CELL_FLASH_CACHE = KEEP for the tables belonging to the affected application.
- C. Configure Smart Flash Log on the cells to use some of these of the space on the cell flash devices.
- D. Configure the table belonging to the affected application using CELLCLI, to the set CELL_FLASH_CACHE = KEEP.
- E. Configure Smart Flash Log on the database server to use server flash memory.

Correct Answer: BC

Explanation: B: The following command could be used to pin the table CUSTOMERS in Exadata Smart Flash Cache
ALTER TABLE customers STORAGE (CELL_FLASH_CACHE KEEP)

C:Creating Flash Disks Out Of The Flash Cache When an Exadata cell is installed, by default, all the flash is assigned to be used as flash cache and user data is automatically cached using the default caching behavior. Optionally, a portion of the cache can be reserved and used as logical flash disks. These flash disks are treated like any Exadata cell disk in the Exadata cell except they actually reside and are stored as non- volatile disks in the cache.

Note: *Pinning Objects In The Flash Cache Preferential treatment over which database objects are cached is also provided with the Exadata Smart Flash Cache. For example, objects can be pinned in the cache and always be cached, or an object can be identified as one which should never be cached. This control is provided by the new storage clause attribute, CELL_FLASH_CACHE, which can be assigned to a database table, index, partition and LOB column

*There are two techniques provided to manually use and manage the cache. The first enables the pinning of objects in the flash cache. The second supports the creation of logical disks out of the flash for the permanent placement of objects on flash disks.

QUESTION 5

Which three are true about Enterprise Manager plug- in configuration for the Database Machine?

- A. There are several separate plug-ins for Grid Control.
- B. There is one plug-in for Cloud Control.



- C. There are several separate plug-ins for Cloud Control.
- D. Some plug-ins require SNMP trap forwarders.
- E. All plug-ins require SNMP trap forwarders.
- F. There is one plug-in for Grid Control.

Correct Answer: ABD

Explanation: A:Oracle Enterprise manager Grid control, is hands down the best monitoring and management tool, for the oracle exadata database machine. It comes with plugins to monitor all the hardware components of the database machine, and sensible, preset thresholds for proactive monitoring.

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