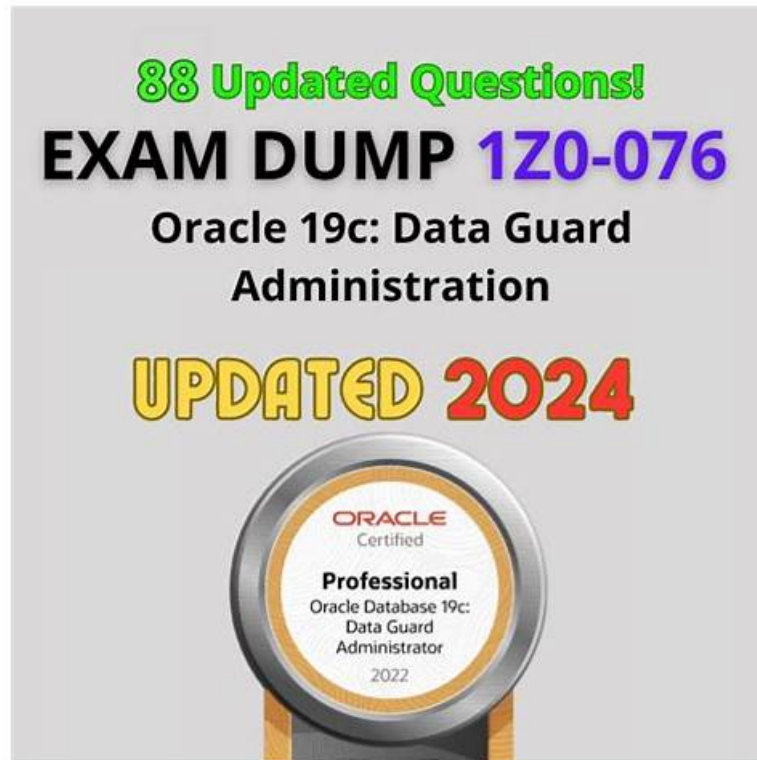


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Oracle Database 19c: Data Guard Administration Sample Questions (Q33-Q38):

NEW QUESTION # 33

Your Data Guard environment consists of these components and settings:

1. A primary database

2. A remote physical standby database
3. Real-time query is enabled.
4. The redo transport mode is set to SYNC.
5. The protection mode is set to Maximum Availability.

You notice that queries executed on the physical standby database receive errors: ORA-03172:

STANDBY_MAX_DATA_DELAY of 15 seconds exceeded. Which two would you recommend to avoid this error?

- A. Increase the network bandwidth between the primary and standby databases.
- B. Reduce I/O latency for the storage used by the primary database.
- C. Change the protection mode to Maximum Performance.
- D. Increase the size of the buffer cache on the standby database instance.
- E. Change the protection mode to Maximum Protection.
- F. Increase the number of standby redo log files on the primary database.

Answer: A,B

Explanation:

The ORA-03172: STANDBY_MAX_DATA_DELAY error indicates that the real-time query on the physical standby database is experiencing delays beyond the specified maximum data delay threshold. Increasing the network bandwidth (Option A) can enhance the speed at which redo data is transferred from the primary to the standby database, thereby reducing the likelihood of exceeding the STANDBY_MAX_DATA_DELAY threshold. Reducing I/O latency on the primary database's storage (Option B) ensures that redo data is generated and shipped more efficiently, further mitigating the risk of delay. These actions, focused on optimizing data transfer and processing speed, address the root causes of the ORA-03172 error in a synchronous Data Guard configuration operating in Maximum Availability mode.

NEW QUESTION # 34

You notice that the SQL apply lag on your logical standby database has increased but the redo transport lag has not. Which four could be reasons for the increase in SQL apply lag?

- A. An undersized undo tablespace on the logical standby
- B. An undersized shared pool
- C. An increased number of bulk inserts on the primary
- D. The standby redo log files are undersized on the primary database
- E. Many SQL apply operations do full table scans
- F. An increased number of bulk updates on the primary

Answer: A,B,E,F

Explanation:

The SQL apply lag on a logical standby database can be caused by several factors:

A: An undersized undo tablespace can lead to delays in SQL apply operations as it may not be able to handle the volume of undo records generated by the SQL apply process.

B: SQL apply operations that do full table scans can consume significant system resources, potentially leading to higher apply lag.

C: An increased number of bulk updates on the primary database may generate a large volume of redo data, which can cause apply lag if the logical standby cannot apply the changes quickly enough.

F: An undersized shared pool may affect the parsing and execution of SQL statements by SQL apply, which can contribute to the apply lag.

Option D is less likely to be a direct cause of SQL apply lag compared to bulk updates, as inserts generate new data rather than modifying existing data, which SQL apply can typically handle more efficiently.

Option E is incorrect because the size of the standby redo log files on the primary database impacts redo transport lag, not SQL apply lag.

NEW QUESTION # 35

You created two remote physical standby databases using SQL and RMAN.

The primary database is a four-instance RAC database and each physical standby database has two instances.

Roles-based services are used for client connectivity and have been defined in the Grid Infrastructure.

Consider these operational requirements:

- * The ability to manage multiple standby databases with a single tool
- * The simplification of switchovers, failovers, reinstatements, and conversions to and from snapshot standby databases

* The automation of failovers to a specified target standby database
Which TWO tools can be used to fulfill these requirements?

- A. SRVCTL
- B. SQL*Plus
- C. DGMGRL
- D. CRSCTL
- E. RMAN
- F. Enterprise Manager Cloud Control
- G. GDCCTL

Answer: C,F

Explanation:

Enterprise Manager Cloud Control provides a graphical interface to manage multiple standby databases, simplify switchovers and failovers, and automate failover processes to a specified target standby database. It offers a comprehensive view and control over the Data Guard configuration, making complex operations more manageable.

DGMGRL is a command-line tool specifically designed for managing Data Guard configurations. It allows the administration of multiple standby databases, simplifies the execution of switchovers and failovers, reinstatements, and conversions to and from snapshot standby databases, and supports the automation of failover processes to a specified standby database.

Other options like RMAN, SQL*Plus, CRSCTL, SRVCTL, and GDCCTL do not provide the same level of integrated management functionality for Data Guard environments as Enterprise Manager Cloud Control and DGMGRL.

NEW QUESTION # 36

A customer has these requirements for their proposed Data Guard implementation:

1. Zero data loss must still be guaranteed through the loss of any one configuration component.
2. The primary database must be protected against a regional disaster.
3. Performance overheads on the primary should be minimized as much as possible given these requirements.
4. Downtime on the primary database for any reason must be kept to a minimum.

Components referred to in the broker commands are:

□

- A. □
- B. □
- C. □
- D. □

Answer: A

Explanation:

According to the requirements stated:

* Zero data loss must be guaranteed despite the loss of any one component: This necessitates synchronous redo transport to at least one standby database (for no data loss).

* The primary database must be protected against a regional disaster: This implies that there must be a standby database in a different region.

* Performance overhead on the primary should be minimized: This suggests that asynchronous transport should be used where possible to reduce the performance impact on the primary.

* Downtime on the primary for any reason must be kept to a minimum: This is indicative of a requirement for a fast failover mechanism, possibly with a fast-start failover (FSFO) and high availability.

Given these requirements, the appropriate option that fulfills all these is:

* Option C, where 'prima' is the primary database, 'fs1' is the Far Sync instance in the primary region, and

'physt' and 'physt2' are physical standby databases in the primary and remote regions, respectively. In this configuration:

* 'prima' is set to send redo to 'fs1' using SYNC to guarantee zero data loss.

* 'fs1' is set to send redo to 'physt' (local standby) using FASTSYNC, which is a low-latency synchronous transport that is optimized for performance.

* The Data Guard configuration's protection mode is set to MAXAVAILABILITY to provide the highest level of data protection that is possible without compromising the availability of the primary database.

This configuration ensures that there is zero data loss even if the primary region is completely lost, maintains performance by limiting the synchronous transport to the local region with a Far Sync instance, and has a remote standby database in a separate region for disaster recovery purposes.

References:

- * Oracle Data Guard Concepts and Administration
- * Oracle Data Guard Broker documentation

NEW QUESTION # 37

Your Data Guard configuration consists of these components and settings:

1. A primary database
2. A remote physical standby database
3. Real-time query is enabled
4. Redo transport mode is synchronous
5. Protection mode is maximum availability
6. The Data Guard broker is used

You notice that the standby destination fails to acknowledge reception of redo within `net_timeout` period of time. Which is true in this scenario?

- A. Real-time query will be disabled on the physical standby.
- B. The physical standby database instance is shut down by the Data Guard broker.
- C. Synchronous redo transport mode connections to the standby database are terminated.
- D. The protection mode will automatically change to Maximum Performance.

Answer: C

Explanation:

In a Data Guard configuration where the protection mode is set to Maximum Availability and synchronous redo transport is enabled, if the standby destination fails to acknowledge the reception of redo within the `net_timeout` period, the primary database will terminate the synchronous redo transport mode connections to the standby database to protect the primary database from hanging (C). The primary database then operates in a Maximum Performance mode until the issue is resolved. This behavior ensures that the primary database can continue to process transactions even when the standby database is temporarily unavailable.

Reference:

The Oracle Data Guard Broker documentation and Oracle Data Guard Concepts and Administration guide detail the behavior of different protection modes and the response to network timeouts, including the fallback to asynchronous redo transport to maintain primary database availability.

NEW QUESTION # 38

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