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Oracle 1z1-076 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Using Flashback Database in a Data Guard Configuration: This topic covers the configuration and advantages of using Flashback Database in a Data Guard setup, as well as the process of enabling fast-start failover for seamless role changes.
Topic 3	<ul style="list-style-type: none">Using Oracle Active Data Guard: Supported Workloads in Read-Only Standby Databases: Here, the usage of physical standby databases for real-time queries is discussed.
Topic 4	<ul style="list-style-type: none">Oracle Data Guard Basics: This topic covers the essential architecture and concepts of Oracle Data Guard. It includes sub-topics such as the physical and logical standby database comparison, benefits of Data Guard, and its integration with multi-tenant databases.
Topic 5	<ul style="list-style-type: none">Monitoring a Data Guard Broker Configuration: The topic covers the use of Enterprise Manager and DGMGRL to monitor Data Guard configurations and explains the various data protection modes available.
Topic 6	<ul style="list-style-type: none">Enhanced Client Connectivity in a Data Guard Environment: This topic focuses on enhancing client connectivity in a Data Guard setup and implementing failover procedures for seamless client redirection. It also covers application continuity to ensure uninterrupted operations during role transitions.
Topic 7	<ul style="list-style-type: none">Backup and Recovery Considerations in an Oracle Data Guard Configuration: In this topic, Backup and recovery procedures in a Data Guard configuration are discussed, including RMAN backups, offloading to physical standby, and network-based recovery.
Topic 8	<ul style="list-style-type: none">Performing Role Transitions: Here, the concept of database roles is explained, along with the steps for performing switchovers, failovers, and maintaining physical standby sessions during role transitions.

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Oracle Database 19c: Data Guard Administration Sample Questions (Q81-Q86):

NEW QUESTION # 81

Which FOUR database parameters might be affected by or influence the creation of standby databases?

- A. DB_NAME
- B. FALSERVER
- C. STANDBY_ARCHIVE_DEST
- D. COMPATIBLE
- E. db_file_name_convert
- F. ARCHIVE_LAG_TARGET

Answer: A,C,D,E

Explanation:

* DB_NAME (A): The name of the database, which should remain consistent across the primary and standby databases.

* db_file_name_convert (C): This parameter helps define the mapping of data file names from the primary to the standby database, which is crucial during the creation and operation of a standby database.

* COMPATIBLE (D): The compatibility level can influence the features that can be used on the standby database and must be consistent with or higher than that of the primary database, especially after upgrades.

* STANDBY_ARCHIVE_DEST (F): This parameter specifies the destination of archived redo log files on the standby database, which is important for log transport and apply services.

References:

* Oracle Data Guard Concepts and Administration Guide

* Oracle Database Reference

NEW QUESTION # 82

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

Answer: B,C

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 C) 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 # 83

Active Data Guard (ADG) databases are widely used to offload reporting or ad hoc query-only jobs from the primary database. Reporting workload profile is different from the primary database and often requires tuning. Which tool is used to tune SQL workloads running on an ADG database?

- A. In-Memory Active Session History (ASH)
- B. Automatic Diagnostic Database Monitor (ADDM)
- C. Standby Statspack
- D. SQL Tuning Advisor
- E. Automatic Workload Repository (AWR)

Answer: E

Explanation:

AWR collects, processes, and maintains performance statistics for problem detection and self-tuning purposes.

In an Active Data Guard environment, where the physical standby database can be used for read-only workloads, AWR can be instrumental in identifying performance bottlenecks and areas for optimization. It provides detailed reports that include wait events, time model statistics, and active session history, making it an invaluable tool for tuning SQL queries and overall database performance in an ADG setup.

NEW QUESTION # 84

Your expertise is requested for these customer requirements:

The Data Guard environment must be in maximum protection mode.

Reports must be offloaded to a physical standby database.

There must be no lag between the primary and standby databases that affect the reports produced.

The primary database must be resilient in case of a single network failure.

Which solution is correct for these requirements?

- A. One physical standby database with Real-Time Query enabled and STANDBY_MAX_DATA_DELAY parameter set to zero, receiving redo from the primary with synchronous transport
- B. Two physical standby databases with Real-Time Query enabled, receiving redo from the primary with the LOG_ARCHIVE_DEST_n attributes SYNC NOAFFIRM to minimize the performance impact on the primary
- C. One physical standby database with Real-Time Query enabled, receiving redo from two Far Sync instances that are connected to the primary
- D. Two standby databases, at least one of them a physical standby with Real-Time Query enabled and the STANDBY_MAX_DATA_DELAY parameter set to zero, receiving redo from the primary with synchronous transport
- E. Two standby databases, at least one of them a physical standby with Real-Time Query enabled and the STANDBY_MAX_DATA_DELAY parameter set to zero, receiving redo from the primary with asynchronous transport

Answer: D

NEW QUESTION # 85

Which two statements are true regarding asynchronous redo transport in a Data Guard

- A. The performance of SQL apply on a logical standby database always improves when using this transport mode.
- B. This transport mode satisfies the minimum requirements for Maximum Performance data protection mode.
- C. This transport mode satisfies the minimum requirements for Maximum Availability data protection mode.
- D. Real-time query performance on a physical standby database improves for current read requests when using this transport mode.
- E. A transaction can commit without waiting for redo to be sent to any standby database in the data guard configuration.

Answer: B,E

Explanation:

Asynchronous redo transport is a method where the primary database does not wait for an acknowledgment from the standby database before committing transactions, which helps in minimizing the impact on the primary database's performance (B). This transport mode is associated with the Maximum Performance data protection mode, which prioritizes performance over synchronicity of data between the primary and standby databases (C). While it provides a level of data protection, there could be some data loss in the event of a primary database failure because redo data may not have been transmitted to the standby database at the time of the failure.

References: Oracle Data Guard Concepts and Administration documentation provides detailed explanations of different redo transport modes and their implications on data protection and performance. Asynchronous transport mode's behavior and association with Maximum Performance mode are outlined explicitly.

NEW QUESTION # 86

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