

Oracle Database 19C Data Guard Administrator



Online Course

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Oracle Database 19C Data Guard Administrator

Course Modules

1. Oracle Data Guard Basics

- Describe the Architecture of Oracle Data Guard
- Explain the applicability between physical and logical standby
- Explain the benefits of implementing Oracle Data Guard
- Explain Data Guard use with the Oracle Multi-tenant databases

2. Managing Oracle Net Services in a Data Guard Environment

- Understand the basics of Oracle Net Services
- Implement Data Guard best-practice solns in the networking setup

3. Create Physical Standby Database by Using SQL & RMAN Commands

- Configure the primary database and Oracle Net Services
- Create a physical standby database by using the DUPLICATE TARGET

DATABASE FOR STANDBY FROM ACTIVE DATABASE RMAN

- Describe the Database Nologging Enhancements
- Usage of the PL/SQL procedure DBMS_DBCOMP.DBCOMP
- Explain the creation of a standby database by using DBCA



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4. Oracle Active Data Guard: Supported Workloads in Read-Only

- Real-Time query to access data on a physical standby database
- Describe the supported workload in Active Data Guard

5. Creating and Managing a Snapshot Standby Database

- Create a snapshot standby database to meet the requirement
- Convert a snapshot standby database to a physical standby database

6. Creating a Logical Standby Database

- Determine when to create a logical standby database
- Create a logical standby database
- Manage SQL Apply filtering

7. Oracle Data Guard Broker Basics

- Describe the Data Guard broker architecture
- Describe the Data Guard broker components
- Explain the benefits of the Data Guard broker
- Describe Data Guard broker configurations

8. Creating a Data Guard Broker Configuration

- Create a Data Guard broker configuration
- Manage the Data Guard broker configuration
- List the new Data Guard Broker commands



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9. Monitoring a Data Guard Broker Configuration

- Use Enterprise Manager to manage your Data Guard config
- Invoke DGMGRL to manage your Data Guard configuration
- List the new Data Guard Broker VALIDATE commands

10. Configuring Data Protection Modes

- Describe the data protection modes
- Change the data protection mode of your configuration

11. Performing Role Transitions

- Explain the database roles
- Perform a switchover
- Perform a failover
- How to keep physical standby sessions during role transition

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12. Using Flashback Database in a Data Guard Configuration

- Configure Flashback Database
- Advantages of using Flashback Database in a Data Guard config
- Explain the functionality of replicated restore points
- Explain the functionality of automatic flashback



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13. Enabling Fast-Start Failover

- Configure fast-start failover
- View information about the fast-start failover configuration
- Manage the observer
- Perform role changes in a fast-start failover configuration
- Manually reinstate the primary database

14. Backup & Recovery Considerations in Oracle Data Guard Config

- Use Recovery Manager (RMAN) to back up and restore files
- Offload backups to a physical standby database
- Enable RMAN block change tracking for a physical standby database
- Recover your primary database over the network
- Synchronize Standby Database from Primary Database
- Using Automatic Block Media Recovery

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15. Patching and Upgrading Databases in a Data Guard Configuration

- Patch and upgrade databases using traditional patch methods
- Perform rolling upgrades



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17. Managing Physical Standby Files After Structural Changes

- Primary database changes that may or may not require

18. Using Oracle Active Data Guard: Far Sync and Real-Time Cascading

- Use Far Sync to extend zero data loss protection
- Describe how to create a far sync instance by using RMAN
- Describe the Real-Time Cascading

19. Enhanced Client Connectivity in a Data Guard Environment

- Configure client connectivity in a Data Guard configuration
- Implement failover procedures to automatically redirect clients
- Using Application Continuity in a Data Guard Environment

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