

Oracle Database 10g/11g:Data Guard

Administration Course (15 Hours)

1. Oracle Data Guard Overview

- What Is Oracle Data Guard?
- Types of Standby Databases
- Data Guard Broker Framework
- Types of Services
- Benefits of Implementing Oracle Data Guard

2. Understanding the Oracle Data Guard Architecture

- Oracle Data Guard Architecture
- Data Guard Redo Apply Architecture
- Data Guard SQL Apply Architecture
- Specifying Role-based Destinations
- Configuring Standby Redo Logs
- Standby Database Modes

3. Using Oracle Data Guard Broker

- Oracle Data Guard Broker Features
- Data Guard Broker Configurations
- Benefits of Using the Data Guard Broker
- Data Guard Broker Interfaces

4. Creating a Physical Standby Database by Using SQL

- Preparing the Primary Database
- Setting Initialization Parameters on the Primary Database
- Backing up the Primary Database using RMAN
- Creating a Control File for the Standby Database
- Setting Initialization Parameters on the Standby Database

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Setting up the Environment to Support the Standby Database

Starting the Physical Standby Database

Performing Additional Configuration Tasks

5. Configuring Data Protection Modes and Log Transport Services

Setting the Log Transport Mode

Setting the Data Protection Mode

Delaying the Application of Redo

Using Flashback Database as an Alternative to Apply Delay

Additional Attributes that Affect Log Transport Services

6. Creating a Logical Standby Database by Using SQL

Preparing to Create a Logical Standby Database

Creating a Physical Standby Database

Preparing the Primary Database

Transitioning to a Logical Standby Database

Opening the Logical Standby Database

Verifying the Logical Standby Database

Performing Additional Configuration Tasks

7. Performing Switchover and Failover

Choosing the Best Role Transition Operation

Performing a Switchover by Using SQL

Performing a Failover by Using SQL

Restoring Databases After a Role Transition

Flashback Through Standby Database Role Transitions

8. Enabling Fast-Start Failover

When Will Fast-Start Failover Occur?

Configuring Fast-Start Failover

Prohibited Operations After Enabling Fast-Start Failover

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- Managing the Observer
- Performing Role Changes

9. Using Data Guard in Real Application Clusters Configuration

- Real Application Clusters and Data Guard
- Configuration Considerations with RAC
- Configuring a Primary Database with RAC
- Configuring a Standby Database with RAC
- Apply Instance Failover
- Role Transitions with RAC

10. Other Considerations for Oracle Data Guard

- Using a Physical Standby Database for Read/Write Testing and Reporting
- Offloading Backups to a Physical Standby Database
- Using Flashback Database and Real-time Apply
- Using Flashback Database After RESETLOGS
- Enabling Redo Encryption
- Configuring Cascaded Redo Log Destinations

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