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## **Oracle Database Data Guard Administration Training**

### **Introduction to Oracle Data Guard**

What Is Oracle Data Guard?

Types of Standby Databases

Data Guard Broker Framework

Benefits of Implementing Oracle Data Guard

### **Understanding the Oracle Data Guard Architecture**

Oracle Data Guard Architecture

Data Guard Redo Apply Architecture

Data Guard SQL Apply Architecture

Specifying Role-based Destinations

Oracle Data Guard Broker Architecture

Benefits of using the Data Guard Broker

### **Installing Oracle Software**

Installation: System Requirements

Installing Oracle Database Software

### **Creating Primary Database**

Using the DBCA to Create Primary Database

Use netca, netmgr, Manual Steps to create and configure the Listener

Start and stop the listener

Setting up tnsnames.ora/listener.ora/sqlnet.ora on Non-Default/Default path

Troubleshooting listener related connectivity issue

Use tnsping to test Oracle Net connectivity

### **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



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Setting Initialization Parameters on the Standby Database

Setting Up the Environment to Support the Standby Database

Configuring Standby Redo Logs

Starting the Physical Standby Database

Performing Additional Configuration Tasks

## **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

## **Using Oracle Data Guard Broker**

Data Guard Broker Configurations

Data Guard Broker Interfaces

## **Creating and Managing a Snapshot Standby Database**

Snapshot Standby Database: Architecture

Converting a Physical Standby Database to a Snapshot Standby Database

Activating a Snapshot Standby Database: Issues and Cautions

Viewing Snapshot Standby Database Information

Converting a Snapshot Standby Database to a Physical Standby Database

## **Performing Switchover and Failover**

Choosing the Best Role Transition Operation

Performing a Switchover by Using DGMGRL

Performing a Switchover by Using SQL

Performing a Failover by Using DGMGRL

Performing a Failover by Using SQL

Restoring Databases After a Role Transition

Flashback Through Standby Database Role Transitions



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## **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





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## **Enabling Fast-Start Failover**

When Will Fast-Start Failover Occur?

Configuring Fast-Start Failover

Prohibited Operations After Enabling Fast-Start Failover

Managing the Observer

Performing Role Changes (Automatic Failover)

Reinstate Old Primary as Standby by Observer

**For Any Clarification please feel free to contact @ +91 9867328291.**

Cheers,

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