

Oracle Data Guard 24 Hours

Introduction to Data Guard

- Standby Database Concepts
- History of Standby Database
- Types of Standby Databases
- Benefits and Drawbacks
- Operational Constraints
- Lifecycle of Standby Database
- A Sample Configuration

Data Guard Architecture

- Architectural Components
- Data Guard Apply Modes
- Archive Gap Sequence
- Data Guard Broker Architecture
- Role of Transport Network Substrate

Implementing Standby Databases

- Physical Standby Database
- Creating Physical Standby Database
- On A Remote Host Machine
- On A Local Host Machine
- Creating Logical Standby Database
- Creating A Logical Standby database
- Sample Configuration

Standby Database Administration

- Administration Of Physical Standby Database
- General Administration Tasks
- Monitor Physical Standby Database
- Propagating Unrecoverable Operations To Standby Database
- Physical Standby Database With Time Lag
- Resolving Archive Gap Sequence On Physical Standby Database
- Administration Of Logical Standby Database
- Managing Schema Objects
- Impact On Other Standby Database In Configuration

Log Management Services

- Log Transport Services
- Log Apply Services
- Physical Standby Database
- Logical Standby Database
- Log Management Policies
- Standby Redo Logs

- Log Transport Service Transmission Attributes
- Standby Database Protection Modes
- Protection Modes In Oracle9i Release 1
- Protection Modes In Oracle9i Release 2

Switchover and Failover

- Types Of Database Role Transitions
- Determining A Suitable Standby Database For Role Transition
- Disadvantages Of Transitioning To Logical Standby Database
- Switchover Operation
- Preparing Primary Database For Switchover
- Preparing Standby Database For Switchover
- Switchover to a Physical Standby Database
- Failover Operation
- Verify Failover Operation
- Impact on Other Standby Database In Configuration
- Transparent Application Failover

Management Using Data Guard Broker

- Creating Data Guard Configuration
- Managing Data Guard Configuration
- Managing Site
- Managing Database Resources
- Switchover & Failover using DG Broker
- Gathering Statistic using BG Broker

Performance Tuning Of Data Guard Configuration

- Understanding Tuning Requirements
- Monitoring Data Guard Performance
- Tuning Log Transfer Service
- Tuning Log Apply Services
- Understanding Memory Usage during Log Apply
- Wait Events Specific to Standby Database
- Tuning SQL Apply Operation
- Configuring Standby Database for high performance

Oracle10g Data Guard New Features

Using RMAN for Standby Database