O1041 - Oracle 10g Data Guard

Course Objectives

Learn how to use Oracle Data Guard to help protect the Oracle Database against planned and unplanned downtimes. The Data Guard architecture is used to create physical and logical standby databases, including Primary Database Configuration, Implementation and Monitoring.

Who Should Attend

Oracle Database Administrators
Oracle Support Engineers

Prerequisites

Oracle 10g DBA Part 1
Oracle SQL

Duration

2 Days

Course Contents

Oracle Data Guard Introduction
Describe the basics of Oracle Data Guard.
High availability usage of Data Guard architecture.
Considerations of planned and unplanned down time.
Physical and Logical differences.

Oracle Data Guard Architecture
Data Guard architecture
Operational requirements of Data Guard.
Advantages of multiple Standby databases.

Log Transport Services
Service architecture
Capabilities of services
Service Interfaces
Describe archive log gap detection.
Data protection modes

Oracle Data Guard Environment
Understanding the differences of configuration with Data Guard.
Initialization parameters
Data Guard views
Performance configurations

Data Guard Broker & Enterprise Manager
Management Model
Data Guard Broker architecture
Data Guard Broker components.
Benefits of Data Guard Broker
Data Guard Broker configurations.
Configuration management using DGMGRL.

Data Guard SQL Apply Architecture
When to use a logical standby database.
Create a logical standby database using Enterprise Manager.

Switchover and Failover
Database roles
Switchover / Failover
Flashback Database after a failover.

Physical Standby Database
Create & manage a Physical Standby database.

Logical Standby database
Create & manage a Logical Standby database.

Further Considerations
Back up the primary database with a physical standby database.
Back up a logical standby database.
Flashback Database features in a Data Guard configuration.
Encrypt redo information
Cascaded redo log destinations