

## Oracle Database 10g: Backup and Recovery

**Duration:** 3 Days

### What you will learn

This Oracle Database 10g: Backup and Recovery training teaches you how to evaluate your own recovery requirements and develop an appropriate strategy for backup and recovery procedures. You'll learn how to use RMAN and Enterprise Manager to perform backup and recovery operations.

### Learn To:

Develop an effective backup and recovery strategy.

Perform backup and recovery operations using RMAN.

Install and configure Oracle Secure Backup for tape backup.

Use Oracle Secure Backup to back up database and file system files.

Understand how Flashback features are described as an additional way to recover from human error.

### Explore Oracle Secure Backup

This course includes Oracle Secure Backup, which supplies reliable tape backup of the database through direct integration with RMAN and also provides general file system backup to tape capabilities. You'll install Oracle Secure Backup and use it to back up Oracle Database files and file system files.

### Live Virtual Class Format

A Live Virtual Class (LVC) is exclusively for registered students; unregistered individuals may not view an LVC at any time. Registered students must view the class from the country listed in the registration form. Unauthorized recording, copying, or transmission of LVC content may not be made.

### Audience

Data Warehouse Administrator

Database Administrators

### Related Training

#### *Required Prerequisites*

Oracle Database 10g: Administration Workshop I Release 2

### Course Objectives

Manage the Oracle Secure Backup environment

Monitor and tune Recovery Manager

Perform tablespace point-in-time recovery

Create a duplicate database

Create and manage a recovery catalog database

Perform an encrypted database backup and restore

Plan effective backup and recovery procedures

Use Recovery Manager to create backups and perform recovery operations

Use Oracle Flashback technologies to recover from human error

Install Oracle Secure Backup

Perform an Oracle-suggested backup to tape

Use Oracle Secure Backup to perform a file system backup

Use Oracle Secure Backup to perform a file system restoration

## Course Topics

### Introduction

Overview of backup methods

Overview of recovery methods

Backup and recovery strategies

### Configuring for Recoverability

Configuring ARCHIVELOG mode

Specifying a Retention Policy

Configuring the Flash Recovery Area

### Using RMAN to Create Backups

Configuring RMAN Persistent Settings

Configuring Backup Optimization

Enabling Fast Incremental Backup

Creating an Oracle-suggested Backup

Creating Duplex Backup Sets

Configuring Control File Auto-backups

Managing Backups

### Using RMAN to Perform Recovery

Performing Complete Recovery

Performing Recovery Using Incrementally Updated Backups

Using the Flash Recovery Area for Fast Recovery

Restoring and Recovering the Database on a New Host

Restoring the Server Parameter File  
Restoring the Control File from Auto-backup

### **Using Oracle Flashback Technologies**

Performing Flashback Table  
Flashing Back Dropped Tables  
Performing Flashback Versions Query  
Performing Flashback Transaction Query  
Configuring Flashback Database  
Performing Flashback Database

### **Using RMAN to Create a Duplicate Database**

Creating an Initialization Parameter File for the Auxiliary Instance  
Creating a Duplicate Database  
Using Enterprise Manager to Create a Duplicate Database

### **Performing Tablespace Point-in-Time Recovery**

Tablespace Point-in-time Recovery Architecture  
Determining the Recovery Set Tablespaces  
Performing Basic RMAN Tablespace Point-in-time Recovery  
Troubleshooting Tablespace Point-in-time Recovery

### **Using the RMAN Recovery Catalog**

Configuring the Recovery Catalog Database  
Creating the Recovery Catalog Owner  
Creating the Recovery Catalog  
Registering a Database in the Recovery Catalog  
Cataloging Additional Backup Files  
Manually Re-synchronizing the Recovery Catalog  
Creating and Executing Stored Scripts

### **Monitoring and Tuning RMAN**

Monitoring RMAN Sessions  
Monitoring RMAN Job Progress  
Interpreting RMAN Message Output  
Tuning RMAN Backup Performance

### **Oracle Secure Backup Overview**

Oracle Secure Backup: Tape Management and Integration with Oracle Products  
Oracle Secure Backup Interface Options  
Media Management Expiration Policies  
Securing Data and Access to the Backup Domain

### **Install Oracle Secure Backup**

Perform Pre-installation Tasks  
Perform Installation Tasks  
Configure the Administrative Server  
Configure Oracle Secure Backup Users

### **Use RMAN and Oracle Secure Backup**

RMAN Database Backup to Tape  
Define Database Storage Selectors

- Back Up the Flash Recovery Area to Tape
- Perform Oracle-suggested Backup to Tape
- Manage Database Tape Backups

### **Back Up File System Files With Oracle Secure Backup**

- Manage Media Families
- Create Datasets
- Create Backup Windows
- Create Backup Schedules
- Create Backup Triggers
- Create On-Demand Backup Requests

### **Restore File System Backups with Oracle Secure Backup**

- Browse the Catalog for File System Backup Data
- Restore File System Data
- Create a Catalog-Based Restore Request
- Submit a Restore Request

### **Manage Oracle Secure Backup Security**

- Manage User Access Control
- Define an Oracle Secure Backup User
- Leverage Oracle Security Technology
- Administrative Server Certificate Authority (CA)
- Create Encrypted Backups
- Restore Encrypted Backups
- Perform Encrypted Recovery

### **Manage the Administrative Domain**

- Managing Common Daemon Operations
- Managing Policies and Defaults
- Configuring Oracle Secure Backup Policies
- Adding Clients, Media Servers, and Devices
- Managing Devices and Volumes
- Managing Jobs