

ODAT-50 - ORACLE DATABASE: BACKUP AND RECOVERY WORKSHOP ED 1

Categoria: **Database**

INFORMAZIONI SUL CORSO



Durata:
5 Giorni



Categoria:
Database



Qualifica Istruttore:
Oracle Certified
Professional



Dedicato a:
Professionista IT



Produttore:
Oracle

OBIETTIVI

- Describe the Oracle Database architecture components related to backup and recovery operations
- Describe Oracle Database backup methods and recovery operations that can be used to resolve database failure
- Plan effective backup and recovery procedures
- Configure the database for recoverability
- Use Recovery Manager (RMAN) to create backups and perform recovery operations
- Use the Data Recovery Advisor to diagnose and repair failures
- Perform an encrypted database backup and restore
- Perform tablespace point-in-time recovery
- Use Oracle Flashback Technologies to recover from human error

PREREQUISITI

Suggested Prerequisite

- Knowledge of SQL and PL/SQL (for DBA use)
- Knowledge of Oracle Database 18c
- Basic knowledge of Linux operating system

Required Prerequisite

- Oracle Database 18c: Administration Workshop

CONTENUTI

Introduction

- Oracle Maximum Availability Architecture
- Assess your recovery requirements
- Categories of failures
- Basic Workshop Architecture
- Curriculum Context
- Oracle backup and recovery solutions
- Overview of Oracle Secure Backup and Oracle Data Guard

Getting Started

- Oracle DBA tools for backup and recovery
- Connecting to Oracle Recovery Manager (RMAN)
- Review of Oracle Database architecture

Configuring for Recoverability

- Configuring and managing persistent settings
- Multiplexing the control file
- RMAN commands
- Archiving redo log files
- Using the Fast Recovery Area (FRA)
- Multiplexing redo log files

Using the RMAN Recovery Catalog

- Creating and Configuring the Recovery Catalog
- Using RMAN Stored Scripts
- Using Virtual Private Catalogs
- Managing Target Database Records in the Recovery Catalog
- Maintaining and Protecting the Recovery Catalog

Backup Strategies and Terminology

- Backing Up Read-Only Tablespaces
- Balancing Backup and Restore Requirements
- Backup Terminology
- Data Warehouse Backup and Recovery: Best Practices

Performing Backups

- RMAN Backup Types
- Oracle-Suggested Backup
- Reporting on Backups
- Managing Backups
- Fast Incremental Backup
- Incrementally Updated Backups
- Block Change Tracking

Improving Your Backups

- Creating and Managing Archival Backups
- Cataloging Additional Backup Files
- Using a Media Manager
- Compressing Backups
- Backing Up Recovery Files
- Backing Up the Control File to a Trace File
- Backup and Restore for Very Large Files

Using RMAN-Encrypted Backups

- Using Dual-Mode Encryption
- Creating RMAN-Encrypted Backups
- Restoring Encrypted Backups
- Using Password-Mode Encryption
- Using Transparent-Mode Encryption

Diagnosing Failures

- Automatic Diagnostic Repository
- Performing Block Media Recovery
- Using the Data Recovery Advisor
- Reducing Problem Diagnosis Time

Restore and Recovery Concepts

- Complete Recovery (Overview)
- Instance Failure and Instance/Crash Recovery
- Restoring and Recovering
- Point-in-Time Recovery (Overview)
- Recovery with the RESETLOGS Option
- Media Failure

Performing Complete Recovery

- Using RMAN for Recovery in NOARCHIVELOG Mode
- Performing Complete Recovery
- Using Restore Points
- Using Image Files for Recovery

Performing Point-in-Time Recovery

- Performing Database Point-in-Time Recovery
- Performing Fully Automated TSPITR
- When to use Tablespace Point-in-Time Recovery (TSPITR)
- TSPITR Architecture
- Recovering Tables from Backups

Additional Recovery Operations

- Recovery of Server Parameter File (SPFILE)
- Performing Disaster Recovery
- Recovering from the Loss of a Redo Log File Group
- Restoring the Database to a New Host
- Restoring the Control File

Using Flashback Technologies

- Flashback Transaction Query
- Using Flashback Technology to Query Data
- Flashback Table
- Flashback Data Archive
- Flashback Technology: Overview
- Flashback Drop and the Recycle Bin

Using Flashback Database

- Configuring Flashback Database
- Performing Flashback Database
- Flashback Database Architecture
- Creating Guaranteed Restore Points
- Best Practices for Flashback Database

Transporting Data

- Transporting Data Across Platforms
- Database Transport: Using Data Files
- Transporting Data with Backup Sets

Performing Point-in-Time Recovery

- Performing RMAN TS Point-in-time Recovery
- When to use TSPITR
- Recovering Tables from Backups
- TSPITR Architecture

Duplicating a Database

- Understanding the RMAN Duplication Operation
- Comparing the “Push” and “Pull” Methods
- Choosing Database Duplication Techniques
- Creating a Backup-Based Duplicate Database
- Using a Duplicate Database

RMAN Troubleshooting and Tuning

- Interpreting RMAN Message Output
- Tuning RMAN Backup Performance
- Configuring RMAN Multiplexing
- Diagnosing Performance Bottlenecks

Backup and Recovery Workshop

- Workshop Structure and Approach
- Diagnosing the Failures
- Business Requirements for Database Availability and Procedures

INFO

Manuale: Materiale didattico ufficiale Oracle in formato digitale. Il materiale didattico è compreso nel prezzo sia per i corsi a Calendario sia per quelli Dedicati.

Prezzo manuale: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)