

Oracle Database 12c: Backup and Recovery Workshop



Durata: 5 giornate

Scopo del corso:

Questo corso Oracle Database 12c: Backup e Recovery workshop vi insegnerà come valutare le proprie esigenze di recupero.

Sarai in grado di sviluppare strategie appropriate per il backup, il ripristino e procedure di recupero dagli scenari previsti.

Al termine del corso gli allievi saranno in grado di:

- Descrivere i metodi di backup Oracle Database e le operazioni di recupero che possono essere utilizzati per risolvere errori del database
- Descrivere i componenti dell'architettura Oracle Database relativi ad operazioni di backup e ripristino
- Pianificare procedure di backup e recovery efficaci
- Configurare il database perché sia recuperabile
- Utilizzare Recovery Manager (RMAN) per creare copie di backup ed eseguire le operazioni di recupero
- Utilizzare il Recovery Advisor Data per diagnosticare e riparare i guasti
- Utilizzare Oracle Flashback Technologies per recuperare da un errore umano
- Eseguire un backup del database crittografato e il relativo ripristino
- Eseguire recupero point-in-time dell'alta disponibilità
- Descrivere ulteriori caratteristiche di alta disponibilità come Oracle Data Guard



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Per informazioni www.greensistemi.it - info@greensistemi.it
Ogni corso è personalizzabile in base alle vostre esigenze.

Prerequisiti:

Conoscenza di Oracle Database 12c

La conoscenza di SQL e PL / SQL

Prerequisiti suggeriti:

Utilizzo di Oracle Enterprise Manager 12c Cloud Control

Contenuti:

Introduction

Curriculum Context

Assess your Recovery Requirements

Categories of failures

Oracle Backup and Recovery Solutions

Oracle Maximum Availability Architecture

Oracle Secure Backup

Benefits of using Oracle Data Guard

Basic Workshop Architecture

Getting Started

Core Concepts of the Oracle Database, Critical for Backup and Recovery

Oracle DBA Tools for Backup and Recovery

Connecting to Oracle Recovery Manager (RMAN)

Quick Start: A Problem-Solution Approach

Configuring for Recoverability

RMAN commands

Configuring and managing persistent settings

Using the Fast Recovery Area (FRA)



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Control File

Redo Log File

Archiving Logs

Using the RMAN Recovery Catalog

Creating and Configuring the Recovery Catalog

Managing Target Database Records in the Recovery Catalog

Using RMAN Stored Scripts

Maintaining and Protecting the Recovery Catalog

Virtual Private Catalogs

Backup Strategies and Terminology

Backup Solutions Overview and Terminology

Balancing Backup and Restore Requirements

Backing Up Read-Only Tablespaces

Best Practices for Data Warehouse Backups

Additional Backup Terminology

Performing Backups

RMAN Backup Types

Incrementally Updated Backups

Fast Incremental Backup

Block Change Tracking

Oracle-Suggested Backup

Reporting on Backups

Managing Backups



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Improving Your Backups

Compressing Backups

Using a Media Manager

Creating RMAN Multisection Backups, Proxy Copies, Duplexed Backup Sets and Backups of Backup Sets

Creating and Managing Archival Backups

Backing Up Recovery Files

Backing Up the Control File to a Trace File

Cataloging Additional Backup Files

Backing Up ASM Disk Group Metadata

Using RMAN-Encrypted Backups

Creating RMAN-Encrypted Backups

Using Transparent-Mode Encryption

Using Password-Mode Encryption

Using Dual-Mode Encryption

Diagnosing Database Failures

Reducing Problem Diagnosis Time

Automatic Diagnostic Repository

Interpreting RMAN Message Output and Error Stacks

Data Recovery Advisor

Diagnosing Data File Loss (file system and ASM)

Handling Block Corruption



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Restore and Recovery Concepts

Restoring and Recovering

Instance Failure and Instance/Crash Recovery

Media Failure

Complete Recovery (Overview)

Point-in-Time Recovery (Overview)

Recovery Through RESETLOGS

Performing Recovery, Part 1

RMAN Recovery in NOARCHIVELOG Mode

Performing Complete Recovery (of critical and noncritical data files)

Restoring ASM Disk Groups

Recovery with Image Files

Performing Point-in-Time (PITR) or Incomplete Recovery

Table Recovery from Backups

Performing Recovery, Part 2

Recovery of Server Parameter File, Control File

Redo Log File Loss and Recovery

Password Authentication File Re-creation

Index, Read-Only Tablespace, and Tempfile Recovery

Restoring the Database to a New Host

Disaster Recovery

Restoring RMAN Encrypted Backups



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RMAN and Oracle Secure Backup

Oracle Secure Backup Overview

Oracle Database Disk and Tape Backup Solution

Backing Up the Fast Recovery Area to Tape

Defining Retention for RMAN Backups

RMAN and Oracle Secure Backup Basic Process Flow

Integration with Cloud Control

RMAN Database Backup to Tape

Performing Tape Backups and Restores

Scheduling Backups with EM

Oracle-Suggested Backup

RMAN and OSB Process Flow

RMAN and Oracle Secure Backup Jobs

Managing Database Tape Backups

Performing Database Recovery

RMAN Automatic Failover to Previous Backup

Using Flashback Technologies

Flashback Technology: Overview and Setup

Using Flashback Technology to Query Data

Flashback Table

Flashback Transaction (Query and Backout)

Flashback Drop and the Recycle Bin

Flashback Data Archive

Using Flashback Database

Flashback Database Architecture



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Configuring Flashback Database

Performing Flashback Database

Best Practices for Flashback Database

Managing Backup Space or Transporting Data

Transporting Tablespaces

Transporting Databases

Duplicating a Database

Using a Duplicate Database

Choosing Database Duplication Techniques

Creating a Backup-up Based Duplicate Database

Understanding the RMAN Duplication Operation

Using Cloud Control to Clone a Database

RMAN Performance and Tuning

Tuning Principles

RMAN Multiplexing

Diagnosing Performance Bottlenecks

Restore and Recovery Performance Best Practices

Backup and Recovery Workshop

Workshop Structure

Workshop Approach to Solving Failure Scenarios

Business Requirements for Database Availability and Procedures