ODAT-16 - ORACLE DATABASE 19C: DATA GUARD ADMINISTRATION WORKSHOP

Categoria: **Database**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
5 Giorni	Database	Oracle Certified Professional	Professionista IT	Oracle

OBIETTIVI

- Utilizzare Data Guard per ottenere un database Oracle ad alta disponibilità
- Utilizzare Data Guard database di standby per supportare funzioni di produzione come la presentazione, l'interrogazione, le prove, e backup spettacolo
- Creare e gestire database fisici e logici standby
- Utilizzare Enterprise Manager Cloud Control e l'interfaccia a riga di comando Data Guard (DGMGRL) per mantenere una configurazione Data Guard

PREREQUISITI

Prerequisiti richiesti:

- Oracle Database Administration
- Fondamenti del sistema operativo Linux

Prerequisiti consigliati:

- Comprensione di base di PL / SQL e trigger

CONTENUTI

1: Introduction to Oracle Data Guard

- Introduction to Oracle Data Guard
- Oracle Data Guard: Architecture (Overview)
- Demo
- Practice 1-1: Discovering the Practice Environment
- Introduction to Oracle Data Guard (Score 80% or higher to pass)

2: Oracle Net Services in a Data Guard Environment

- Oracle Net Services in a Data Guard Environment
- Demo
- Practice 2-1: Configuring the tnsnames.ora File
- Practice 2-2: Configuring the listener.ora File

-Oracle Net Services in a Data Guard Environment (Score 80% or higher to pass)

3: Creating a Physical Standby Database by Using SQL and RMAN Commands

-Creating a Physical Standby Database by Using SQL and RMAN Commands
-Combinations for VALID_FOR
-Example: Setting Initialization Parameters on the Primary Database
-Creating a Physical Standby Database by Using Enterprise Manager
-Practice 3-1: Prepare the Primary Database to Support Data Guard
-Practice 3-2: Prepare Host and Create Physical Standby Database
-Practice 3-3: Start Redo Transport and Verify Operation
-Creating a Physical Standby Database by Using SQL and RMAN Commands (Score 80% or higher to pass)

4: Managing Physical Standby Files After Structural Changes on the Primary Database

-Managing Physical Standby Files After Structural Changes on the Primary Database
-Scenario 6: Resetting the TDE Master Encryption Key
-Practice 4-1: Refreshing the Password File
-Practice 4-2: Controlling PDB Replication
-Practice 4-3: Automating Instantiation of a PDB
-Managing Physical Standby Files After Structural Changes on the Primary Database (Score 80% or higher to pass)

5: Using Oracle Active Data Guard: Supported Workloads in Read-Only Standby

-Using Oracle Active Data Guard: Supported Workloads in Read-Only Standby
-Creating an AFTER LOGON Trigger for Synchronization
-DDL on Global Temporary Tables
-DML Operations on Active Data Guard Standby Databases
-Practice 5-1: Enable Active Data Guard Real-Time Query
-Practice 5-2: Performing DDL/DML on Global Temporary Table
-Practice 5-3: Managing Private Temporary Table for DDL/DML
-Practice 5-4: Configuring Automatic Redirection of DML operations
-Using Oracle Active Data Guard: Supported Workloads in Read-Only Standby (Score 80% or higher to pass)

6: Using Oracle Active Data Guard: Far Sync and Real-Time Cascading

-Using Oracle Active Data Guard: Far Sync and Real-Time Cascading
-Far Sync: Alternate Design
-Practice 6-1: Add Far Sync to the Data Guard Environment
-Practice 6-2: Add 2nd Far Sync to the Data Guard Environment
-Using Oracle Active Data Guard: Far Sync and Real-Time Cascading (Score 80% or higher to pass)

7: Creating and Managing a Snapshot Standby Database

-Creating and Managing a Snapshot Standby Database
-Practice 7-1: Convert Physical Standby to a Snapshot Standby
-Practice 7-2: Convert Snapshot Standby Back to Physical Standby
-Creating and Managing a Snapshot Standby Database (Score 80% or higher to pass)

8: Creating a Logical Standby Database

-Creating a Logical Standby Database
-Creating a Logical Standby Database by Using SQL Commands
-Practice 8-1: Identify Unsupported Objects for Logical Standbys

-Practice 8-2: Create a Logical Standby (Temporarily a Physical)
-Practice 8-3: Start Redo Transport and Verify Operation
-Practice 8-4: Convert Physical Standby to Logical Standby
-Creating a Logical Standby Database (Score 80% or higher to pass)

9: Oracle Data Guard Broker: Overview

-Oracle Data Guard Broker: Overview
-Oracle Data Guard Broker: Overview (Score 80% or higher to pass)

10: Creating a Data Guard Broker Configuration

-Creating a Data Guard Broker Configuration
-Changing Database Properties and States
-Practice 10-1: Establishing Local and Remote Connections with DGMGRL
-Practice 10-2: Create and Enable a Data Guard Broker Configuration
-Practice 10-3: Verify and Examine the Data Guard Environment
-Creating a Data Guard Broker Configuration (Score 80% or higher to pass)

11: Monitoring a Data Guard Broker Configuration

-Monitoring a Data Guard Broker Configuration
-Viewing Data Guard Diagnostic Information
-Practice 11-1: Monitoring the Physical Standby Database
-Practice 11-2: Examining Data Guard Log and Trace Files
-Practice 11-3: Using the VALIDATE commands
-Monitoring a Data Guard Broker Configuration (Score 80% or higher to pass)

12: Configuring Data Protection Modes

-Configuring Data Protection Modes
-Maximum Availability Mode
-Practice 12-1: Examining the Maximum Availability Protection Mode
-Practice 12-2: Examining the Maximum Protection Mode
-Configuring Data Protection Modes (Score 80% or higher to pass)

13: Optimizing and Tuning a Data Guard Configuration

-Optimizing and Tuning a Data Guard Configuration
-Tuning Automatic Outage Resolution
-Practice 13-1: Configuring Network Compression of Redo Data
-Practice 13-2: Generating AWR Report for an Active Data Guard Instance
-Practice 13-3: Using ADDM for an Active Data Guard Instance
-Practice 13-4: Using SQL Tuning Advisor for an Active Data Guard Instance
-Optimizing and Tuning a Data Guard Configuration (Score 80% or higher to pass)

14: Performing Role Transitions

-Performing Role Transitions
-Validating Databases for Switchover by Using DGMGRL
-Practice 14-1: Performing Switchover
-Practice 14-2: Keeping Physical Standby Session Connected During Role Transition
-Performing Role Transitions (Score 80% or higher to pass)

15: Using Flashback Database in a Data Guard Configuration

-Using Flashback Database in a Data Guard Configuration
-Practice 15-1: Configuring Flashback Database on the Primary Database
-Practice 15-2: Configuring Flashback Database on the Physical Standby Database
-Practice 15-3: Configuring Flashback Database on the Logical Standby Database
-Practice 15-4: Testing Automatic Flashback of Standby Database
-Practice 15-5: Performing Flashback of the Logical Standby Database
-Using Flashback Database in a Data Guard Configuration (Score 80% or higher to pass)

16: Enabling Fast-Start Failover

-Enabling Fast-Start Failover
-Configuring Automatic Reinstatement of the Primary Database
-Using Enterprise Manager to Enable Fast-Start Failover
-Practice 16-1: Configuring Fast-Start Failover in Observer-Only Mode
-Practice 16-2: Enabling Fast-Start Failover
-Practice 16-3: Testing Fast-Start Failover
-Practice 16-4: Switchover to Reinstated Database
-Enabling Fast-Start Failover (Score 80% or higher to pass)

17: Backup and Recovery Considerations in an Oracle Data Guard Configuration

-Backup and Recovery Considerations in an Oracle Data Guard Configuration
-Backup and Recovery of a Logical Standby Database
-Recovering from the Loss of a Data File on the Primary Database
-Practice 17-1: Enable Change Tracking on the Physical Standby Database
-Practice 17-2: Creating a Recovery Manager Catalog
-Practice 17-3: Registering Your Database in the Recovery Catalog
-Practice 17-4: Configuring RMAN Parameters
-Practice 17-5: Recovering a Data File on Your Primary Database Over the Network
-Practice 17-6: Rolling Forward a Standby Database with One Command
-Backup and Recovery Considerations in an Oracle Data Guard Configuration (Score 80% or higher to pass)

18: Enhanced Client Connectivity in a Data Guard Environment

-Enhanced Client Connectivity in a Data Guard Environment
-Data Guard Broker and Fast Application Notification (FAN)
-Practice 18-1: Creating and Testing Primary Database Services
-Practice 18-2: Modifying the Primary Database Service for Application Continuity
-Enhanced Client Connectivity in a Data Guard Environment (Score 80% or higher to pass)

19: Patching and Upgrading Databases in a Data Guard Configuration

-Patching and Upgrading Databases in a Data Guard Configuration
-Performing a Rolling Upgrade by Using a Physical Standby Database
-Rolling Upgrades Using DBMS_ROLLING and Active Data Guard

INFO

Materiale didattico: Materiale didattico ufficiale Oracle in formato digitale
Costo materiale didattico: incluso nel prezzo del corso a Calendario
Natura del corso: Operativo (previsti lab su PC)