

# ODAT-18 - ORACLE DATABASE 19C: RAC ADMINISTRATION WORKSHOP

Categoria: **Database**

## INFORMAZIONI SUL CORSO



**Durata:**  
5 Giorni



**Categoria:**  
Database



**Qualifica Istruttore:**  
Oracle Certified  
Professional



**Dedicato a:**  
Professionista IT



**Produttore:**  
Oracle

## OBIETTIVI

- Descrivere l'architettura Oracle Clusterware
- Descrivere la funzionalità Plug and Play Clusterware
- Descrivere i vantaggi di Oracle RAC
- Spiegare la necessità di risorse globali
- Descrivere coordinamento cache globale
- Installare Oracle Database
- Creare un database di cluster
- Eseguire le attività post-Database-creazione
- Convertire un database Oracle a singola istanza ai CCR
- Spiegare i principi e le finalità dei cluster
- Definire redo log file in un ambiente RAC
- Definire tabelle di annullamento in un ambiente RAC
- Avviare e arrestare i database RAC e istanze
- Modificare i parametri di inizializzazione in un ambiente RAC
- Configurare il database RAC per utilizzare la modalità ARCHIVELOG e la zona di recupero veloce
- Configurare RMAN per l'ambiente RAC

## PREREQUISITI

### Prerequisiti richiesti:

- Oracle Database Administration

### Correlati Corsi di formazione consigliati:

- Oracle Database: Backup e Recovery
- Oracle Database: Data Guard Administration
- Oracle Database: Performance Management and Tuning

## CONTENUTI

### 1: Grid Infrastructure:Overview

- Grid Infrastructure:Overview

- Clusterware Architecture and Cluster Services
- Oracle Clusterware Initialization
- Grid Naming Service (GNS)
- Course Practice Environment: Security Credentials
- Practice 1-1: Configuring a Standalone Flex Cluster (Part 01)
- Practice 1-1: Configuring a Standalone Flex Cluster (Part 02)
- Practice 1-1: Configuring a Standalone Flex Cluster (Part 03)
- Practice 1-1: Configuring a Standalone Flex Cluster (Part 04)

## **2: RAC Databases Overview and Architecture**

- RAC Databases Overview and Architecture
- Cluster-Aware Storage Solutions
- Levels of Scalability
- Parallel Execution with RAC

## **3: Installing with Configuring Oracle RAC**

- Installing with Configuring Oracle RAC
- Installing the Oracle Database Software
- Database Content
- Background Processes Specific to Oracle RAC
- Example: Result of Step 3
- Practice 3-1: Installing RAC Database Software (Part 01)
- Practice 3-1: Installing RAC Database Software (Part 02)
- Practice 3-2: Creating a RAC Database (Part 01)
- Practice 3-2: Creating a RAC Database (Part 02)
- Practice 3-2: Creating a RAC Database (Part 03)

## **4: Oracle RAC Administration**

- Oracle RAC Administration
- Redo Log Files and RAC
- Local Temporary Tablespaces
- Switch between Automatic and Manual Policies
- Parameters That Require Unique Settings
- Practice 4-1: Operating System and Password File Authenticated Connections
- Practice 4-2: Oracle Database Authenticated Connections
- Practice 4-3: Stopping a Complete ORACLE\_HOME Component Stack

## **5: Upgrading and Patching Oracle RAC**

- Upgrading and Patching Oracle RAC
- OPatch: Overview

## **6: Managing Backup and Recovery for RAC**

- Managing Backup and Recovery for RAC
- Media Recovery in Oracle RAC
- Oracle Recovery Manager
- Distribution of Backups
- Overview of Practice
- Practice 6-1: Configuring Archive Log Mode
- Practice 6-2: Configuring RMAN and Performing Parallel Backups

## **7: Global Resource Management Concepts**

- Global Resource Management Concepts
- Global Resource Access Coordination
- Scenario 2:Read-Write Cache Fusion

## **8: RAC Database Monitoring and Tuning**

- RAC Database Monitoring and Tuning
- Global Enqueue Waits
- High-Water Mark Considerations
- AWR Snapshots in RAC
- Practice 8-1:ADDM and RAC PartI (Part 01)
- Practice 8-1:ADDM and RAC PartI (Part 02)
- Practice 8-1:ADDM and RAC PartI (Part 03)
- Practice 8-2:ADDM and RAC PartII
- Practice 8-3:ADDM and RAC PartIII

## **9: Managing High Availability of Services**

- Managing High Availability of Services
- Default Service Connections
- Using Service with Client Applications
- Using Service with the Resource Manager
- Service Aggregation and Tracing
- Practice 9-1:Working with Service
- Practice 9-2:Monitoring Services

## **10: High Availability for Connections and Applications**

- High Availability for Connections and Applications
- Implementing FAN Events
- Server-Side Callout Filter:Example
- TAF Basic Configuration on Server-Side:Example
- What Is Application Continuity ?
- Practice 10-1:Using Application Continuity (Part 01)
- Practice 10-1:Using Application Continuity (Part 02)

## **11: Oracle RAC One Node**

- Oracle RAC One Node
- Online Relocation Illustration
- Practice 11-1:RAC One Node

## **12: Oracle Database In-Memory in RAC**

- Oracle Database In-Memory in RAC
- In-Memory Column Store and Oracle RAC
- How the Database Reads from the FastStart Area
- Practice 12-1 Reconfiguring the Environment (Part 01)
- Practice 12-1 Reconfiguring the Environment (Part 02)

## **13: Multitenant Architecture and RAC**

- Multitenant Architecture and RAC

- Containers
- Connection to a Non-RAC CDB
- Creating a RAC CDB
- Adding a PDB to a RAC CDB
- Practice 13-1: Exploring CDB Architecture and Structures in RAC (Part 01)
- Practice 13-1: Exploring CDB Architecture and Structures in RAC (Part 02)
- Practice 13-2: Cloning a PDB in a RAC CDB
- Practice 13-3: Affinitizing PDB Services to CDB Instances (Part 01)
- Practice 13-3: Affinitizing PDB Services to CDB Instances (Part 02)
- Practice 13-4: Dropping a PDB

#### **14: Quality of Service Management**

- Quality of Service Management
- Qos Management Policy Sets
- Performance Objectives

## 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)