

## D81250GC20 - Oracle Database 12c R2: RAC Administration Ed 2

<b>Czas trwania:</b>	Czas trwania: 4 dni / 32 godz.
<b>Cena rynkowa:</b>	7 468,00 zł
<b>Cena promocyjna:</b>	7 094,00 zł
<b>Szkolenie autoryzowane:</b>	Tak



### Informacje o szkoleniu

This Oracle Database 12c R2: RAC Administration training will teach you about Oracle RAC database architecture. Expert Oracle University instructors will deep dive into Global Resources and Cache Fusion. In this course, you will be introduced to Oracle Database Exadata Cloud Service.

Czego się nauczysz

Learn To:

Install Oracle RAC software.

Create cluster databases.

Configure Oracle RAC Reader Nodes.

Administer both administrator and policy-managed Oracle RAC databases.

Explain the benefits of Local Temporary tablespaces.

Monitor and address performance issues.

Learn about services in a RAC environment as well as highly available connection features including Application

Continuity and Transaction Guard.

Create and administer a RAC One Node Database.

Create and manage multitenant RAC databases.

Gain an understanding of the Oracle Database Exadata Cloud Service.

Do kogo skierowane jest to szkolenie

Administrator

Database Administrators

Wymagania wstępne

Required Prerequisites

Oracle Database 12c R2: Clusterware Administration

Working knowledge of Oracle Database 11g: Release 2, including Clusterware, ASM and RAC

Oracle Database 12c R2: Clusterware Administration

Suggested Prerequisites

Working knowledge of Oracle Clusterware, ASM & RAC on Linux

## Wymagania wstępne

Brak

## Zagadnienia poruszane podczas szkolenia

- Course Objectives
- Configure Oracle RAC Reader Nodes
- Define redo log files in a RAC environment
- Define undo tablespaces in a RAC environment
- Describe the benefits of Oracle RAC
- Convert a single-instance Oracle Database to RACs
- Install the Oracle Database software
- Create a cluster database
- Define local temporary tablespaces in a RAC environment
- Modify initialization parameters in a RAC environment
- Perform post-database-creation tasks
- Configure RMAN for the RAC environment
- Configure the RAC database to use ARCHIVELOG mode and the fast recovery area
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- Explain the necessity of global resources
- Describe global cache coordination
- Explain the principles and purposes of clusters
- Describe the Oracle Clusterware architecture Course Topics
- Grid Infrastructure: Overview
- What is a Cluster?
- What is a Flex Cluster ?
- Clusterware Characteristics
- Oracle Clusterware
- Hardware and Software Concepts (High level)
- RAC and Flex ASM RAC Databases Overview & Architecture
- Overview of Oracle RAC
- Oracle RAC One Node (High level)
- Cluster-Aware Storage Solutions
- Benefits of Using RAC
- Scaleup and Speedup
- I/O Throughput Balanced
- Global Resources Installing and Configuring Oracle RAC
- Installing the Oracle Database Software
- Installation options
- Creating the Cluster Database
- Configuring Oracle RAC Reader Nodes
- Post-installation Tasks
- Single Instance to RAC Conversion using DBCA and rconfig Oracle RAC Administration
- Separation of Duty for Administering Oracle RAC
- Use Enterprise Manager Cluster Database Pages
- RAC Alerts
- RAC Metrics
- Undo Tablespaces
- Local Temporary Tablespaces
- Redo Threads
- Parameters and RAC - SPFILE, Identical and Unique Parameters Upgrading and Patching Oracle RAC
- Overview of Upgrades and Patching
- Release and Patch Set Upgrades
- PSU, CPU and Interim Patches
- Merge Patches
- Performing Out of Place Database Upgrades
- Planning and Preparing for Upgrade
- Post Upgrade Tasks Managing Backup and Recovery for RAC
- Instance Failure And Recovery In RAC - LMON and SMON
- Redo Threads and Archive Logs Configurations and Admin
- Parameter Settings Affecting Parallel Recovery and MTTR
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## RAC and the Fast Recovery Area

- ❑ RMAN Configuration
- ❑ RMAN Admin for RAC: Channels, Instances, Backup Considerations RAC Global Resource Management and Cache Fusion
- ❑ Globally Managed Resources and Management
- ❑ Library Cache Management
- ❑ Row cache management
- ❑ Buffer cache fusion
- ❑ Buffer Cache Management Requirements
- ❑ Accessing single blocks in RAC
- ❑ Multi-block read considerations in RAC
- ❑ Undo and read consistency considerations in RAC RAC Database Monitoring and Tuning
- ❑ OCPU and Wait Time Latencies
- ❑ Wait Events for RAC
- ❑ Common RAC Tuning
- ❑ Session and System Statistics
- ❑ RAC specific V\$ Views
- ❑ Automatic Database Diagnostic Monitor for RAC
- ❑ Monitoring RAC with Cluster Health Advisor (CHA) Managing High Availability of Services in a RAC Environment
  
- ❑ Oracle Services
- ❑ Services for Policy - and Administrator-Managed Databases
- ❑ Service-Oriented Buffer Cache Access
- ❑ Creating Services
- ❑ Managing Services
- ❑ Use Services with Client Applications
- ❑ Services and Connection Load Balancing
- ❑ Services and Transparent Application Failover Managing High Availability of Connections
- ❑ Types of Workload Distribution
- ❑ Client-Side Load Balancing
- ❑ Server-Side Load Balancing
- ❑ Runtime Connection Load Balancing and Connection Pools
- ❑ Fast Application Notification
- ❑ The Load Balancing Advisory FAN Event
- ❑ Server-Side Callouts
- ❑ Configuring the Server-Side ONS Application Continuity
- ❑ What is AC?
- ❑ What problem does it solve?
- ❑ Benefits of AC
- ❑ How AC works
- ❑ AC Architecture
- ❑ Side Effects
- ❑ Restrictions
- ❑

Application requirements RAC One Node

- ▣ RAC One Node Concepts
- ▣ Online database migration
- ▣ Adding Oracle RAC One Node Database to an Existing Cluster
- ▣ Convert an Oracle RAC One Node database to a RAC database
- ▣ Convert an Oracle RAC database to a RAC One Node database
- ▣ Use DBCA to convert a single instance database to a RAC One Node database Oracle Database In-Memory in RAC
- ▣ Architecture of In-Memory Column Store
- ▣ Implementing In-Memory Column Store in RAC
- ▣ Implementing In-Memory FastStart Multitenant Architecture and RAC
- ▣ Non-CDB Architecture
- ▣ Multitenant Architecture: Benefits
- ▣ CDB in a Non-RAC Environment
- ▣ Containers
- ▣ Terminology and Data Dictionary Views
- ▣ Connection to a Non-RAC CDB
- ▣ Oracle RAC and Multitenant Configuration
- ▣ Oracle RAC and Multitenant Architecture Quality of Service Management
- ▣ QoS Management concepts
- ▣ Describe the benefits of using QoS Management
- ▣ QoS Management components
- ▣ QoS Management functionality Oracle Database Exadata Cloud Service Overview
- ▣ Introducing Exadata Cloud Service
- ▣ Service Configuration Options & Service Connection Options
- ▣ Service Architecture & Availability
- ▣ Management Responsibilities
- ▣ Storage Configuration & Management Details
- ▣ Simple Web-Based Provisioning & Management
- ▣ REST APIs
- ▣ Migrating to Exadata Cloud Service

## Informacje dodatkowe

Brak

## Najbli sze terminy

Miejsce	Terminy
Wirtualna klasa	2021-05-04 - 2021-05-07

## Typy szkolenia

Tradycyjne

Asseco | Zdalna klasa

Asseco | Wirtualna klasa

**Wi cej informacji:**

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