

Szkolenie: Oracle
Oracle Database 12c: RAC Administration


FORMA SZKOLENIA	MATERIAŁY SZKOLENIOWE	CENA	CZAS TRWANIA
Stacjonarne	Cyfrowe	7112 PLN NETTO*	4 dni
Stacjonarne	Tablet CTAB	7712 PLN NETTO*	4 dni
Metoda dlearning	Cyfrowe	7112 PLN NETTO*	4 dni
Metoda dlearning	Tablet CTAB	7112 PLN NETTO*	4 dni

* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

LOKALIZACJE

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00

Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

Cel szkolenia:

This **Oracle Database 12c: RAC Administration** training will teach you about Oracle RAC database architecture. Expert Oracle University instructors will deep dive into Global Resources and Cache Fusion.

Learn To:

- Install Oracle RAC software.
- Create cluster databases.
- Administer both administrator and policy-managed Oracle RAC databases.
- 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.

Plan szkolenia:

- Grid Infrastructure Overview and Review
 - What is a Cluster?
 - What is a Flex Cluster
 - Clusterware Characteristics

- Oracle Clusterware
- Hardware and Software Concepts (High level)
- RAC Databases Overview & Architecture
 - Overview of Oracle RAC
 - RAC One Node
 - Cluster-Aware Storage Solutions
 - Benefits of Using RAC
 - Scaleup and Speedup
 - I/O Throughput Balanced
 - Global Resources
 - RAC and Flex ASM
- Installing and Configuring Oracle RAC
 - Installing the Oracle Database Software
 - Installation options
 - Creating the Cluster Database
 - Post-installation Tasks
 - Single Instance to RAC Conversion
 - Cleaning Up Unsuccessful Installs
- Oracle RAC Administration
 - Parameters and RAC - SPFILE, Identical and Unique Parameters
 - Instance Startup, Shutdown and Quiesce
 - Undo Tablespaces
 - Use Enterprise Manager Cluster Database Pages
 - RAC Alerts
 - RAC Metrics
 - Session management on RAC instances
- RAC Backup and Recovery
 - Instance Failure And Recovery In RAC - LMON and SMON
 - Redo Threads and Archive Log Configurations and Admin
 - Parameter Settings Affecting Parallel Recovery and MTTR
 - Instance Failure And Recovery In RAC - LMON and SMON
 - RAC and the Fast Recovery Area
 - RMAN Configuration
 - RMAN Admin For RAC: Channels, Instances, Backup Distribution
 - RMAN Restore And Recovery RAC 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 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
- Managing High Availability of Services in a RAC Environment
 - Oracle Services
 - Services for Policy - and Administrator-Managed Databases
 - Creating Services
 - Managing Services
 - Use Services with Client Applications
 - Services and Connection Load Balancing
 - Services and Transparent Application Failover
 - Services and the Resource Manager
- 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
- Upgrading and Patching 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
- Performing Out of Place Release Install or Upgrade
- Post Upgrade Tasks
- Application Continuity
 - What is AC?
 - What problem does it solve?
 - Benefits of AC
 - How AC works
 - AC Architecture
 - Side Effects
 - Restrictions
 - Application requirements
- Quality of Service Management
 - QoS Management concepts
 - Describe the benefits of using QoS Management
 - QoS Management components
 - QoS Management functionality
- 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
- Design for High Availability
 - Causes of Planned and Unplanned Down Time
 - Oracle's Solution to Down Time
 - RAC and Data Guard
 - Maximum Availability Architecture
 - Fast-Start Failover
 - Hardware Assisted Resilient Data
 - Database High Availability Best Practices
 - RAID Configuration for High Availability

Wymagania:

Recommended Related Training Courses:

- Oracle Database 12c: Global Data Services
- [Oracle Database 12c: Backup and Recovery Workshop](#)
- Oracle Database 12c: Backup and Recovery Workshop Ed 2 NEW
- Oracle Database 12c: Data Guard Administration
- [Oracle Database 12c: Performance Management and Tuning](#) NEW
- [Oracle Database 12c: Security](#)

Poziom trudności



Certyfikaty:

Uczestnicy szkoleń otrzymają zaświadczenia o ukończeniu kursu sygnowane przez firmę Oracle.

Prowadzący:

Autoryzowany wykładowca Oracle.