Szkolenie: Oracle
Oracle Database 12c: RAC Administration

<table>
<thead>
<tr>
<th>FORMA SZKOLENIA</th>
<th>MATERIAŁY SZKOLENIOWE</th>
<th>CENA</th>
<th>CZAS TRWANIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stacjonarne</td>
<td>Cyfrowe</td>
<td>7112 PLN NETTO*</td>
<td>4 dni</td>
</tr>
<tr>
<td>Stacjonarne</td>
<td>Tablet CTAB</td>
<td>7712 PLN NETTO*</td>
<td>4 dni</td>
</tr>
<tr>
<td>Metoda dlearning</td>
<td>Cyfrowe</td>
<td>7112 PLN NETTO*</td>
<td>4 dni</td>
</tr>
<tr>
<td>Metoda dlearning</td>
<td>Tablet CTAB</td>
<td>7112 PLN NETTO*</td>
<td>4 dni</td>
</tr>
</tbody>
</table>

* (+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 otrzymują zaświadczenia o ukończeniu kursu sygnowane przez firmę Oracle.

Prowadzący:

Autoryzowany wykładowca Oracle.