

# Oracle Database 11g - 2 Day DBA Release 2



2 jours - 14 heures

Code formation : log-

[www.adhara.fr](http://www.adhara.fr)

## Objectifs

**Install Oracle Database 11g Create a Database Use Enterprise Manager Database Control to manage the database Configure and manage the Oracle Network environment Manage database storage structures Administer users and security Manage schema objects Backup and recover the database Monitor the database Use the Support Workbench Manage the Oracle Database software Use the Advisors**

## Participants

**Administrateurs de base de données Consultant Technique Ingénieurs support**

## Prérequis

**Cours pré-requis obligatoire(s): Basic knowledge of Linux Operating System**

## Pédagogie

**La pédagogie est basée sur le principe de la dynamique de groupe avec alternance d'apports théoriques, de phases de réflexion collectives et individuelles, d'exercices, d'études de cas et de mises en situations observées. Formation / Action participative et interactive : les participants sont acteurs de leur formation notamment lors des mises en situation car ils s'appuient sur leurs connaissances, les expériences et mettront en oeuvre les nouveaux outils présentés au cours de la session.**

## Profil de l'intervenant

**Consultant-formateur expert sur cette thématique. Suivi des compétences techniques et pédagogiques assurée par nos services.**

## Moyens techniques

**Encadrement complet des stagiaires durant la formation. Espace d'accueil, configuration technique des salles et matériel pédagogique dédié pour les formations en centre. Remise d'une documentation pédagogique papier ou numérique à échéance de la formation.**

## Méthodes d'évaluation des acquis

**Exercices individuels et collectifs durant la formation. Evaluation des acquis et attestation de fin de stage adressés avec la facture.**

## Programme

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## Pédagogie

The goal of this course is to teach Database Administrators how to install the Oracle Database 11g software and perform the tasks required to manage an Oracle database. Enterprise Manager is used throughout to teach students how to quickly accomplish the required task. Emphasis is on the self-managing capabilities and automatic features of Oracle Database 11g. This course is targeted towards Database Administrators of small to medium sized businesses. Learn To: Install Oracle Database 11g software and create a database Use Enterprise Manager Database Control to manage the database Manage database storage structures and schema objects Administer users and security Back up and recover the Oracle database Monitor the database and use the Advisors

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## Programme

### Overview of Oracle Database Administration

**Relational Databases: Introduction**

**What is SQL?**

**Overview of Oracle Instance and Database**

**Common Tasks of an Oracle Database Administrator (DBA)**

**Tools for Administering an Oracle Database**

### Monitoring the Database and Using the Advisors

**Monitoring General Database State, Workload, and Performance**

**Setting Metric Thresholds**

**Setting Up Direct Alert Notification**

**Diagnosing Performance Problems**

**Viewing ADDM Performance Analysis and Responding to Findings**

**Using the SQL Tuning and SQL Access Advisors**

**Configuring the Automatic SQL Tuning Advisor**

**Viewing Automatic SQL Tuning Results**

### Investigating, Reporting, and Resolving Problems

**Using the Enterprise Manager Support Workbench**

**Workflow for Investigating, Reporting, and Resolving a Problem**

**Performing the Tasks to Investigate and Report a Critical Error**

## Managing Oracle Database Software

**Understanding Software Management and Patch Releases**

**Patching Oracle Database Software**

**Using the Database Upgrade Assistant to Upgrade the Database**

## Installing the Database and Creating the Database

**Using Oracle Universal Installer**

**Installation Prerequisites**

**Setting Environment Variables**

**Installing the Oracle Database Software: Steps**

**Using the Database Configuration Assistant (DBCA)**

**Using the DBCA to Create a Database**

**Performing Other Actions with the DBCA**

**Using the DBCA to Manage Templates**

## Using Oracle Enterprise Manager Database Control and SQL-Based Management Tools

**Oracle Database 11g Release 2 Management Framework: Components**

**Administering the Database by Using Enterprise Manager: Overview**

**Starting the Database Control Console Process**

**Accessing Enterprise Manager Database Control**

**Oracle Enterprise Manager: Navigation**

**Granting Enterprise Manager Administrative Privileges**

**Configuring Enterprise Manager Settings and Preferences**

**Using SQL\*Plus and SQL Developer to Access Your Database**

## Configuring the Oracle Network Environment

**Tools for Configuring and Managing the Oracle Network**

**Accessing the Enterprise Manager Net Services Administration Page**

**Managing the Oracle Net Listener with Enterprise Manager**

**Using the Listener Control Utility**

**Connecting to an Oracle Database**

**Oracle Net: Naming Methods**

**Using Enterprise Manager to Configure Local Naming**

**Using Oracle Net Manager to Configure Local Naming**

## Managing the Oracle Instance

**Oracle Instance Management**

**Oracle Processes**

**Oracle Memory Structures**

**Starting the Instance and Opening the Database**

**Shutting Down an Oracle Database Instance**

**Viewing and Modifying Initialization Parameters**

**Managing Memory Components**

**Viewing the Alert Log**

## **Managing Database Storage Structures**

**Oracle Database Structures**

**Exploring the Storage Structure of the Oracle Database**

**Multiplexing the Redo Log**

**Enlarging the Database**

**Creating, Modifying, and Dropping Tablespaces**

**Reclaiming Space in Your Tablespace**

**Managing Undo Data**

**Using the Undo Advisor to Compute the Minimum Undo Tablespace Size**

## **Administering Users and Security**

**Overview of Users and Security**

**Oracle-Defined Users**

**Creating, Modifying, and Dropping Users**

**Locking and Unlocking Accounts**

**Unlocking a User Account and Resetting the Password**

**Setting the Password Policy**

**Modifying the Default Password Policy**

**Administering Privileges and Roles**

## **Managing Schema Objects**

**Creating, Modifying, and Dropping Tables**

**Understanding Data Integrity and Defining Constraints**

**Viewing the Contents of a Table**

**Creating and Dropping Indexes**

**Managing Views**

**Managing Program Code Stored in the Database**

**Managing Access to Schema Objects**

**Loading Data**

## **Performing Backup and Recovery**

**Backup, Restore, and Recovery Concepts**

**Configuring the Database for Backup and Recovery**

**Configuring Backup Settings**

**Backing Up the Database**

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**Using the Oracle-Suggested Backup Strategy**  
**Performing Backup Maintenance Tasks**  
**Using Oracle Advised Recovery to Recover the Database**  
**Performing Flashback Table and Flashback Drop**  
**1224**