

# Oracle Database: Deploy, Patch and Upgrade Workshop

**Duration:**  
2 days

This Oracle Database Deploy, Patch, and Upgrade Workshop will provide you with key information to install Oracle Database software. You'll also learn how to create a container database and provision pluggable databases.

## Course Objectives

Upon completion of this course, the student should be able to:

- Prepare the Linux operating system for Oracle software installation
- Configure ASMLIB and create ASM disk groups
- Install Oracle Grid Infrastructure for a Standalone Server (12.1.0.2.0)
- Install Oracle Database 12c software (12.1.0.2.0)
- Create an Oracle Database using DBCA
- Apply the latest patch set updates to the Grid Infrastructure software (12.1.0.2.160719) and Oracle database software (12.1.0.2.160719)
- Use Oracle Restart to manage components
- Install Oracle Grid Infrastructure for an Independent Server (12.2.0.0.3)
- Install Oracle Database 12c Release 2 software (12.2.0.0.3)
- Upgrade database to Oracle Database 12c Release 2
- Understand Oracle Database 18c new features

## Benefits To You

Ensure fast, reliable, secure and easy to manage performance. Optimize database workloads, lower IT costs and deliver a higher quality of service by enabling consolidation onto database clouds.

## Audience

- Database Administrators
- Support Engineers
- Technical Administrator
- Data Warehouse Administrator

## Course Topics

### 1. Oracle Database 12c: Install Overview

### 2. Preparing to Install Oracle Software

- Practice 2-1: Preparing Storage for ASM
- Practice 2-2: Patch and Upgrade the Operating System
- Practice 2-3: Prepare Oracle Linux for Oracle Grid Infrastructure Installation
- Practice 2-4: Install and Configure ASMLib

### 3. Installing Oracle Grid Infrastructure for a Stand-Alone Server

- Practice 3-1: Installing Oracle Grid Infrastructure
- Practice 3-2: Creating Second Disk Group Using Oracle ASMCA (+FRA)

### 4. Installing Oracle Database Software

- Practice 4-1: Installing Oracle Database

## **5. Creating an Oracle Database Using Oracle DBCA**

- Practice 5-1: Creating an Oracle Database using Oracle DBCA

## **6. Patching Oracle Grid Infrastructure and Oracle Database**

- Practice 6-1: Patching OPatch Utility
- Practice 6-2: Running OPlan Utility to Generate Patch Instructions
- Practice 6-3: Patching Oracle Grid Infrastructure and Oracle Database

## **7. Oracle Restart**

- Practice 7-1: Starting and Stopping Oracle Restart
- Practice 7-2: Starting and Stopping Components
- Practice 7-3: Managing Configuration of Components

## **8. Upgrading to Oracle Grid Infrastructure 12c Release 2**

- Practice 8-1: Prepare Oracle Linux for Oracle Grid Infrastructure Upgrade
- Practice 8-2: Upgrading Oracle Grid Infrastructure to 12c Release 2
- Practice 8-3: Migrating ASM Disk Groups from ASMLib to ASMFD

## **9. Before Upgrading to Oracle Database 12c Release 2**

### **10. Upgrading to Oracle Database 12c Release 2**

- Practice 10-1: Upgrading Oracle Database Software
- Practice 10-2: Executing Preliminary Steps and the Pre-Upgrade Script
- Practice 10-3: Implementing the Pre-Upgrade Information Tool Recommendations
- Practice 10-4: Managing Configuration of Components
- Practice 10-5: Performing a Transportable Tablespace Export
- Practice 10-6: Upgrading Oracle Database

### **11. Performing Post-Upgrade Tasks**

- Practice 11-1: Performing Post-Upgrade Actions

### **12. Migrating Data Using Oracle Data Pump**

- Practice 12-1: Performing a Transportable Tablespace Import

## **13. Appendix A: Oracle Database 18c: New Features**

## **14. Appendix B: Oracle Database 19c: Teaser**