

## Oracle Database 12c: Managing Multitenant Architecture

**Duration:** 2 Days

### What you will learn

This Oracle Database 12c: Managing Multitenant Architecture training helps you gain a conceptual understanding of the multitenant architecture. You'll practice plugging and unplugging databases in multi-tenant container databases, while learning how to create common and local users and administer database security to meet your business requirements. In this course, you will be introduced to Oracle Database Cloud Service.

Learn To:

Understand the multitenant architecture.

Create and manage a multitenant container database and pluggable databases.

Manage storage within a multitenant container database and pluggable databases.

Manage security within a multitenant container database and pluggable databases.

Monitor performance and manage resources within a multitenant container database and pluggable databases.

Perform backup, recover and flashback operations on a multitenant container database and pluggable databases.

Manage the CDB and PDBs in specific configurations like Data Guard, Database Vault.

Perform particular operations like Oracle Data Pump transportation, loading, encryption, auditing.

Gain an understanding of the Oracle Database Cloud Service.

### 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.

### Multitenant Architecture

During the Oracle Database 12c Administration Workshop, you'll explore all aspects of the multi-tenant architecture, providing detailed information on the components of an Oracle multi-tenant container database and any associated pluggable databases. You'll learn why and how to create and manage a multi-tenant container database and any associated pluggable databases with storage structures appropriate for the business applications.

### Backup and Recover Pluggable Databases

During the Oracle Database 12c Backup and Recovery Workshop, you'll be presented with multi-tenant container database and pluggable databases backup, recovery and flashback procedures.

### Manage and Monitor Resources

To provide an acceptable response time to users and manage resources effectively, you'll learn how to monitor performance and manage resources within the multi-tenant container database.

### Audience

Data Warehouse Administrator  
Database Administrators  
Database Designers  
Technical Administrator

## Related Training

### *Required Prerequisites*

Working knowledge of tools like SQL\*Plus or Enterprise Manager Cloud Control

Knowledge of non-CDB configuration and management

Working knowledge of SQL and use of PL/SQL packages

Oracle Database 12c: Administration Workshop Ed 2

Oracle Database 12c: Backup and Recovery Workshop Ed 2

### *Suggested Prerequisites*

Basic knowledge of Linux operating system

Oracle Database 12c: Install and Upgrade Workshop

## Course Objectives

Configure resource manager to share resources within a multitenant container database between containers and within a pluggable database

Implement unified auditing in a multitenant container database and its pluggable databases

Use Oracle Data Pump, SQL\*Loader in pluggable databases

Monitor the multitenant container database and pluggable databases

Describe the multitenant architecture

Create a multitenant container database

Create a pluggable database using different methods

Plug a non-CDB into a multitenant container database

Manage multitenant container databases and pluggable databases

Administer multitenant container database and pluggable database storage structures

Create and administer common and local user accounts

Manage common and local privileges and roles

Configure multitenant container databases and pluggable databases backup and recovery operations

Manage the multitenant container database and pluggable databases performance

Gain an understanding of the Oracle Database Cloud Service

## Course Topics

### Introduction

Course Objectives

Course Schedule

Tools

### Container and Pluggable Database Architecture

Challenges and Benefits

Multitenant Architecture

Provisioning PDBs

Terminology

### CDB and PDB Creation

Using Tools

Configuring and Creating a CDB

Creating PDBs

Dropping PDBs

Migrating PDBs

### Managing a CDB and PDBs

Connection

Managing a CDB and PDBs

Managing PDBs Open Mode and Settings

Configuring CDB and PDBs Initialization Parameters

### Managing Storage in a CDB and PDBs

Managing Permanent Tablespaces in CDB and PDBs

Managing Temporary Tablespaces in CDB and PDBs

### Managing Security in a CDB and PDBs

Managing Common and Local Users

Managing Common and Local Privileges

Managing Common and Local Roles

Understanding Shared and Non-Shared Objects

Managing Common and Local Profiles

### Managing Availability

Managing Backups

Managing Recovery Operations

Managing Flashback Database

Duplicating PDBs

Special Situations and Views

## **Managing Performance**

Managing Performance

Managing Resource Allocation

Maximizing Consolidated Database Replay

## **Miscellaneous**

Exporting and Importing Data

Loading Data

Auditing Operations

Scheduling Jobs

Using Other Products

## **Oracle Database Cloud Service: Overview**

Database as a Service Architecture, Features and Tooling

Software Editions: Included Database Options and Management Packs

Accessing the Oracle Database Cloud Service Console & Automated Database Provisioning

Managing the Compute Node Associated With a Database Deployment

Managing Network Access to Database as a Service & Scaling a Database Deployment

Patching Database as a Service & Using the Oracle Database Cloud Service Console to Manage Patches

Migrating from On-premises to Oracle Cloud Database

Gather Information for Migration