Oracle Database 12c: Install and Upgrade Workshop

Duration: 2 Days

What you will learn

This Oracle Database 12c: Install and Upgrade Workshop gives you detailed information to help you install Oracle Database 12c software. Expert Oracle instructors will teach you how to create a container database and provision pluggable databases. In this course, you will be introduced to Oracle Database Cloud Service.

Learn To:

Install Oracle Grid Infrastructure for a Standalone Server.
Use Oracle Restart to manage components.
Upgrade an existing Oracle Database to Oracle Database 12c.
Create a container database and provision pluggable databases.
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.

Gain Hands-On Experience
Get practical experience installing the Oracle Grid Infrastructure software and Oracle Database software by using Oracle Universal Installer. Expert Oracle instructors will teach you how to stop and start Oracle Restart using SRVCTL to manage components.

Audience
Data Warehouse Administrator
Database Administrators
Support Engineer
Technical Administrator

Related Training

Required Prerequisites

Working knowledge of SQL and use of PL/SQL packages

Suggested Prerequisites
Basic knowledge of Linux Operating System

Gain an understanding of the Oracle Database Cloud Service

Install Oracle Grid Infrastructure for a Standalone Server

Use Oracle Restart to manage components

Upgrade database to Oracle Database 12c

Create a container database

Create an Oracle Database

Install Oracle Database 12c software

Course Topics

Oracle Database 12c Overview
Oracle Database 12c Introduction
Oracle Database Architecture Overview
Oracle Database Instance Configurations
Oracle Database Memory Structures
Process Structures
Database Storage Architecture
Logical and Physical Database Structures
Container and Pluggable Database Overview

Installing Oracle Grid Infrastructure for a Standalone Server
Overview of Oracle Grid Infrastructure for a Standalone Server
System Requirements for Oracle Grid Infrastructure
Configuring Storage for Oracle Automatic Storage Management (ASM)
Installing Oracle Grid Infrastructure for a Standalone Server
Upgrading Oracle Grid Infrastructure for a Standalone Server

Installing Oracle Database Software
Planning Your Installation
System Requirements for Oracle Database
Preparing the Operating System
Using 4 KB Sector Disks
Setting Environment Variables
Checking the System Requirements
Using the Oracle Universal Installer (OUI)
Performing a Silent Mode Installation

Creating an Oracle Database by Using DBCA
Planning the Database Storage Structure
Choosing non-CDB or CDB
Types of Databases (based on workload)
Choosing the Appropriate Character Set
Understanding How Character Sets are Used

Setting the NLS_LANG Initialization Parameter
Using the Database Configuration Assistant (DBCA)

Using Oracle Restart
Oracle Restart Overview
Oracle Restart Process startup
Controlling Oracle Restart
Choosing the Correct SRVCTL Utility
Oracle Restart Configuration
Using the SRVCTL Utility
Obtaining Help for the SRVCTL Utility
Starting Components by Using the SRVCTL Utility

Introduction to Upgrading to Oracle Database 12c
Upgrade Methods
Data Migration Methods
Supported Releases for Direct Upgrade
Overview of Upgrade Process
Performing a Rolling Upgrade
Upgrading a CBD

Preparing to Upgrade to Oracle Database 12c
Developing a Test Plan
Performance Testing
Requirements for Databases Using Oracle Label Security or Oracle Database Vault
Requirement for Databases Using Oracle Warehouse Builder
Using the Pre-Upgrade Information Tool
Backing Up the Database
Installing the Oracle Database 12c Software
Preparing the New Oracle Home

Upgrading to Oracle Database 12c
Upgrading by Using the Database Upgrade Assistant (DBUA)
Manually Upgrading to Oracle Database 12c
Migrating a non-CDB to a CDB

Performing Post-Upgrade Tasks
Migrating to Unified Auditing
Performing Post-Upgrade Tasks Following a Manual Upgrade

Migrating Data by Using Oracle Data Pump
Data Pump Overview
Migrating by Using Data Pump
Importing by Using a Network Link