

Oracle Application Server 10g R2: Administration I

Duration: 5 Days

What you will learn

This course introduces the architecture of Oracle Application Server 10g (10.1.2.0.2) and enables the participants to effectively install and manage Oracle Application Server 10g(10.1.2.0.2). The participants learn how to access and use Oracle Application Server management tools, and practice the basic management tasks such as starting and stopping of Oracle Application Server 10g instances and its components. The participants gain hands-on experience in configuring the Oracle Application Server 10g Infrastructure and the Oracle Application Server 10g middle-tier. They also learn to deploy J2EE applications such as Web applications. They learn the concepts of identity management and how to configure and manage Oracle Internet Directory, Oracle Application Server Single Sign-On Server, and the Oracle Application Server Certificate Authority. The participants learn how to leverage Oracle Identity Management Infrastructure for securing OracleAS Portal. Participants also learn the procedures involved in backing up and restoring the Oracle Application Server 10g instances from backup in case of a disaster. This course counts towards the Hands-on course requirement for the Oracle Application Server 10g Administrator Certification. Only instructor-led inclass or instructor-led online formats of this course will meet the Certification Hands-on Requirement. Self Study CD-Rom and Knowledge Center courses are excellent study and reference tools but DO NOT meet the Hands-on Requirement for certification.

Audience

Database Administrators
Sales Consultants
Support Engineer
Web Administrator

Course Objectives

- Install Oracle Application Server 10g Infrastructure
- Install Oracle Application Server 10g Middle-Tier (Portal and Wireless)
- Upgrade Oracle Application Server 10g Portal from 10.1.2.0.2 to 10.1.4
- Start, stop, and manage Oracle Application Server 10g Infrastructure including its components and services
- Start, stop, and manage Oracle Application Server 10g instances
- Configure and manage Oracle Application Server Web Cache
- Configure basic security services in Oracle Application Server 10g
- Configure and manage Oracle HTTP Server
- Configure and manage Oracle Application Server Containers for J2EE (OC4J)
- Configure and manage Oracle Application Server Portal
- Deploy J2EE applications
- Manage Oracle Internet Directory
- Administer the Oracle Application Server Single Sign-On Server
- Manage and configure Oracle Application Server Certificate Authority
- Perform backup and recovery for Oracle Application Server 10g

Course Topics

Introduction

Unit 1: Product Overview

Unit 2: Installation

Unit 3: Basic Management and Configuration

Unit 4: Application Deployment

Unit 5: Managing Access Control

Unit 6: Performance and Availability

Oracle Application Server 10g Components and Features

Oracle Application Server: Overview

Oracle Application Server Components and Solutions

Oracle Application Server Installation Types

Oracle Application Server Management

Installing the OracleAS Infrastructure

OracleAS Infrastructure Components

OracleAS Infrastructure: Installation Steps

Accessing the Oracle Application Server Instance

Starting and Stopping OracleAS Infrastructure

Installing the OracleAS Middle Tier

OracleAS Middle-Tier Installation Phases: Overview

Preinstallation: OracleAS Middle-Tier Requirements

Middle-Tier Installation Options

Accessing the Application Server Control

Accessing OracleAS Portal Welcome Page

Using Oracle Application Server Management Tools

Oracle Application Server Control: Overview

Navigating Around the Topology

Starting, Stopping, and Restarting Oracle Application Server Instances

Viewing Performance Metric Details

Storing Log Information in the Diagnostic Message Database Repository

Enabling SSL for Application Server Control

Changing Oracle Enterprise Manager 10g Port Values

Oracle Process Manager and Notification Server (OPMN)

Configuring and Managing Oracle HTTP Server

Oracle HTTP Server Modules

HTTP Server Processing Model

Configuring the Oracle HTTP Server

Modifying the Server Properties

Configuring and Using Server Logs

Advanced Server Properties

Installing and Configuring mod_security

Configuring Directives and Virtual Hosts

Container Directives

Configuring Virtual Hosts

Controlling Allowed Features

Directory Indexing

Configuring and Managing OracleAS Web Cache

- Managing OracleAS Web Cache with Application Server Control Console
- Modifying Security Settings
- Configure Listening Ports for Incoming Browser Requests
- Configuring Site Definitions and Mapping to Origin Server
- Creating Caching Rules
- Caching Dynamic and Partial Pages
- Invalidation Messages
- Logging Events and Accessing Information

Configuring and Managing OC4J

- Oracle Application Server Containers for J2EE (OC4J)
- Creating an OC4J Instance
- Disabling OC4J Instances
- OC4J Instance Configuration Files
- Configuring OC4J Using Application Server Control

Deploying J2EE Applications

- Deploying Web Application Modules Using Application Server Control
- Deploying Web Application Modules Using dcmctl
- Creating a Data Source
- Deploying J2EE Applications Using Application Server Control
- Deploying J2EE Applications Using dcmctl

Oracle Application Server Security Services

- Oracle Application Server Security Architecture
- OracleAS Web Cache Security
- Oracle HTTP Server Security
- J2EE Security and JAAS
- Oracle Identity Management Security Solution
- OracleAS Portal Security Architecture

Configuring Oracle Application Server Components in Oracle Internet Directory

- Identity Management: Overview
- Oracle Internet Directory Server Process
- Starting and Stopping Oracle Internet Directory Servers using opmn
- Starting Oracle Internet Directory Server Instance
- Using Bulk Tools
- Oracle Internet Directory Administration Delegation Flow
- OracleAS Portal and Oracle Internet Directory

Managing the OracleAS Portal

- OracleAS Portal Administrative Services: Overview
- Managing the OracleAS Portal Instance Using Application Server Control
- OracleAS Portal Schemas
- Managing Portal Users and Groups
- Managing the Portlet Repository
- Exporting and Importing Objects in OracleAS Portal

Configuring OracleAS Portal

- Configuring Self-Registration Feature in OracleAS Portal
- Configuring OraDAV Support for OracleAS Portal Access

- ptllang Script to Install Languages
- Configuring OracleAS Portal Dependencies
- The Portal Dependency Setting File
- The Portal Dependency Settings Tool
- Configuring Portal Web Cache Settings
- Administering Web Clipping and OmniPortlet

Administering the OracleAS Single Sign-On Server

- Authentication Flow for OracleAS Single Sign-On
- OracleAS Single Sign-On Administrator's Role
- Configuring the OracleAS Single Sign-On Server
- Administering Partner Applications
- Administering External Applications
- Monitoring OracleAS Single Sign-On Server
- Accessing SSO Server from OracleAS Portal

Managing Access Using Delegated Administration Services

- How Oracle Delegated Administrative Services Work
- Oracle Delegated Administrative Services Proxy User
- Starting and Stopping
- Configuring the Default Identity Management Realm-Specific Context
- Managing Users, Groups, and Subscribers
- Changing Passwords
- Managing Services and Accounts
- Accessing Oracle Delegated Administrative Services from OracleAS Portal

Securing OracleAS Components Using SSL

- How SSL Works?
- OracleAS Certificate Authority
- Requesting the Web Administrator Certificate
- Managing Certificates
- Configuring OCA Server
- Oracle Wallet Manager
- Enabling Oracle Application Server Components

Backing Up and Restoring Oracle Application Server

- Performing a Complete Oracle Application Server Environment Backup
- Backup and Recovery Tool
- Performing Backups
- Restoring Backups

Related Courses

- Oracle Application Server 10g Administration Self-Study CD Course