

Oracle Application Server 10g: Administration II

Duration 5 Days

What you will learn

This course is the follow-up to Oracle Application Server 10g: Administration I. The focus of this class is to introduce how to distribute identity management components as well as the middle tier. The participants learn the high availability concepts provided with Oracle Application Server 10g and the relationship between installation, high availability, and scalability. Students learn to effectively install and manage non-default installations. They access and use Oracle Application Server management tools.

The participants gain hands-on experience in configuring the OracleAS Infrastructure and the OracleAS middle tier. They learn to deploy Forms, Reports, and XML applications. The attendees discuss the backup and recovery concepts of Oracle Application Server and how to monitor it.

Audience

Database Administrators
Sales Consultants
Technical Consultant

Prerequisites

Introduction to LDAP and Oracle Internet Directory eStudy
Oracle Application Server 10g: Administration I

Course Objectives

- Describe high availability and scalability features available in Oracle Application Server 10g
- Install OracleAS Infrastructure using a distributed environment
- Choose the deployment topology that fits your needs
- Choose the appropriate failover strategy according to their business needs
- Manage OracleAS Reports Services, OracleAS Forms Services and OracleAS Discoverer
- Deploy Web Services, Forms and Reports application, and XML applications
- Reconfigure Oracle Application Server 10g
- Describe backup and recovery solutions for Oracle Application Server 10g
- Manage and Configure Oracle Application Server Clusters
- Manage and Configure OC4J for Failover and Load Balancing
- Monitor and tune Oracle Application Server 10g

Course Topics

Managing Customized Oracle Application Server Topologies

- Explain the key considerations of common deployment topologies
- Compare the pros and cons of common deployment topologies
- Describe the integration architect and the process modeler configuration
- Describe cloning of Oracle Application Server 10g for moving from development to testing to production
- Discuss the high availability deployments like cold cluster failover, data guard, Oracle Real Application Cluster

Distributing Oracle Application Server 10g Infrastructure Components

- Explain Deployment options other than the default installation
- Describe the requirements to install Oracle Application Server 10g Infrastructure using an existing Metadata Repository
- Install Oracle Application Server 10g Infrastructure using an existing Metadata Repository
- Install Oracle Application Server 10g Infrastructure using an existing Oracle Internet Directory
- Install Oracle Application Server 10g Infrastructure using an existing Oracle database
- Install Oracle Application Server 10g Infrastructure using an existing Single Sign-On Server

Introducing High Availability Concepts

- Describe Benefits of High Availability like Fault Tolerance, Death Detection, and Failover
- Explain the Role of Session Replication and the Distributed Cache For High Availability
- List High Availability Features in the Oracle Application Server 10g Middle Tier
- Explain How Process Management, Intelligent Routing, And Distributed Management Work Provide High

Availability

Discuss the Concepts that Exist To Ensure High Availability For Oracle Application Server 10g Infrastructure (Cold Cluster, RAC, Virtual Hostname and Logical IP Addresses)

Managing And Configuring Oracle Application Server Web Cache Clusters

- Configure Multiple Instances of Oracle Application Server Web Cache
- Web Cache Cluster Architecture
- Benefits of Running a Web Cache Cluster
- Configure Web Cache Cluster Settings
- Add Web Cache Instances to the Web Cache Cluster
- Assemble Web Cache Cluster Performance Metrics
- Compare Invalidation in a Web Cache Cluster And a Single Web Cache Instance
- Failure detection and failover in a Web Cache Cluster

Managing and Configuring Oracle Application Server Clusters

- Describe the Oracle Application Server Clustering Architecture
- Contrast the Differences Between Managed And Non-Managed Application Server Cluster
- Create a Managed Oracle Application Server Cluster
- Manage OC4J Instances Within a Cluster
- Enable the Use of Single Sign-On
- Configure Instance-Specific Parameters
- Create a Non-Managed Oracle Application Server Cluster
- Routing Between Instances in the Same Oracle Application Server Farm and Between Instances Across a Firewall

Managing and Configuring OC4J For Failover and Load Balancing

- Group OC4J instances for failover and load balancing
- Describe OC4J Islands
- Configure OC4J Islands Concepts
- Deploy Applications to OC4J grouped instances
- Enable State Replication in OC4J
- Demonstrate state replication using iHAT

Managing Oracle Application Server Cold Failover Clusters

- Describe the architecture of an OracleAS Infrastructure Cold Failover Cluster
- Explain the installation of OracleAS Infrastructure in a Cold Failover Cluster
- Describe installing middle tiers against an OracleAS Infrastructure in a Cold Failover Cluster
- Explain how to start and stop OracleAS Infrastructure in a Cold Failover Cluster

Administer Oracle Application Server 10g Business Intelligence Components

- Describe Oracle Application Server Report Services
- Identify Oracle Application Server Report Services Architecture Components
- Manage Oracle Application Server Report Services
- Integrate Oracle Application Server Reports Services with Oracle Application Server Portal
- Describe Oracle Application Server Discoverer
- Configure Discoverer Using OEM
- Integrate Oracle Application Server Discoverer with Oracle Application Server Portal
- Oracle Application Server Personalization

Deploying Reports to Oracle Application Server 10g

- Identify the OracleAS Reports Services configuration files
- Configure the Reports Server
- Configure the Reports Servlet
- Deploy reports using OracleAS Reports Services
- Deploy a report with paper layout
- Deploy a report using a Web layout

Deploying Forms Applications to Oracle Application Server 10g

- Describe the architecture of Oracle Application Server Forms Services
- Describe the role of each Forms Services component in running an application
- Modify parameters for the Forms Servlet Configure Forms Services
- Use Enterprise Manager Application Server Control to modify the Forms Servlet configuration
- Deploy Forms applications and their associated files

Deploying XML Applications and Web Services

- Explain the Oracle XML and XSLT Parsers

- Deploy a XSQL Servlet
- Overview of SOAP
- Explain Oracle Application Server Web Services
- Describe the Oracle Application Server Web Services Architecture
- Deploy and Manage Oracle Application Server Web Services

Monitoring Oracle Application Server 10g using LogLoader and LogViewer

- List and view application server log files using Enterprise Manager
- Search diagnostic messages in a log repository
- Identify and diagnose problems and correlating messages
- Manage and configure Log Loader
- Troubleshoot common Log Loader problems
- List and view log file messages using the printlogs command line utility

Tuning the Oracle Application Server 10g Middle-Tier

- Assemble Performance Metrics Using Different Sources
- Analyze Oracle Application Server 10g Performance
- Categorize Oracle Application Server 10g Performance Bottlenecks
- Optimize Oracle HTTP Server Performance
- Enhance OC4J Performance
- Utilize Enterprise Manager's Application Performance Management (APM) System
- Monitor and tune the performance of OracleAS Web Cache
- Monitor and Tune OracleAS Forms Services

Reconfiguring an Oracle Application Server 10g Middle-Tier Instance

- Reconfigure Oracle Application Server Portal instance
- Configure additional components to the Oracle Application Server 10g Middle-Tier Installation
- Remove an Oracle Application Server 10g instance from an Oracle Application Server Farm
- Associate an Oracle Application Server 10g Middle-Tier instance with the Oracle Application Server 10g Infrastructure
- Remove an Oracle Application Server 10g Middle-Tier instance from the Oracle Application Server 10g Infrastructure

Backing Up and Restoring Oracle Application Server 10g

- Explain Backup and Recovery Concepts for Oracle Application Server 10g Infrastructure
- Describe Disaster Recovery Options
- Install Oracle Application Server backup and recovery tool
- Configure Oracle Application Server for full backup
- Perform a full Oracle Application Server full backup
- Perform an partial online backup
- Restore middle tier from backup
- Recover OracleAS Infrastructure from backup

Suggested Next Courses

- OracleAS 10g: Enterprise Identity Management