

Course overview:

Oracle Application Server 10g R1 to R3 Administration I

(D118eng, 5-day)



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Overview and objectives

This course introduces one to the architecture and the administration of web servers and application servers using the Oracle10g Application Server platform. The course includes a combination of in-depth conceptual discussions together with numerous hands-on implementation exercises. Differences and capabilities between the R1, R2 and R3 releases of Oracle Application Server 10g are all included. Among the subjects covered are:

- The conceptual and theoretical basis for web and application servers and their role within modern enterprise-scale systems infrastructures. Included is an overview of key concepts such as a Service-Oriented Architecture (SOA).

- A detailed architectural discussion of the application server and its components, and how these interoperate to provide application and web services. Learn how the Application Server supports industry standards for Java, ESI, LDAP, SSL and many others.

- Capacity planning, initial installation and configuration of Application Server instances, including the Infrastructure and Middle Tier platforms.

- Startup, shutdown and other fundamental operations for the basic services and components of the Application Server.

- Become familiar with the most common Web-based, GUI-based and text-based administration tools available for the AS components. Using those tools, administer the services to meet the requirements of your environment.

- Configure the HTTP Server and Web Cache

- Learn basic troubleshooting skills for installation and configuration

- Perform at least minimal access to and exercise of the primary Middle Tier components such as Business Intelligence Reports and Discoverer, Portal, Wireless and others.

- Configure critical Infrastructure instance components used for identity management, such as Single Sign-on, Certificate Authority, Oracle Internet Directory and others.

Who should attend?

The target audience for this course is Oracle application server administrators. Database administrators, information systems architects, and Java and web-based application developers interested in becoming familiar with the application server platform will also benefit from this course.

It is assumed that the reader has some general experience using, developing or administering information systems technologies. Students should also have general familiarity with HTML or XHTML, Java language and development and the operating system platform on which the Oracle Application Server will operate.

This course prepares for Oracle certification exam: *1Z0-311 Oracle Application Server Administration I*

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INTRODUCTION TO APPLICATION SERVERS

- ABOUT APPLICATION SERVERS • ABOUT THE ORACLE10G GRID ARCHITECTURE • SMP • MORE ABOUT THE SERVICE-ORIENTED ARCHITECTURE

INTRODUCTION TO ORACLE 10G AS

- ABOUT THE ORACLE10G AS ARCHITECTURE • ABOUT THE WEB CACHE • ORACLE HTTP SERVER • ORACLE CONTAINERS FOR JAVA (OC4J) • IDENTITY MANAGEMENT SERVICES • BUSINESS INTELLIGENCE SUITE • ORACLE FORMS SERVICES • ORACLE PORTAL • ORACLE WIRELESS • ORACLE AS PERSONALIZATION • OTHER RELATED PRODUCTS

INSTALLING ORACLE AS INFRASTRUCTURE

- ORACLE AS EDITIONS & INSTALLATION OPTIONS • TOPOLOGY CONSIDERATIONS • THE INSTALLATION PROCESS • POST-INSTALLATION STEPS

INSTALLING ORACLE AS MIDDLE TIER

- A SAMPLE MIDDLE TIER INSTALLATION DIALOG • POST-INSTALLATION STEPS

USING ORACLE AS MANAGEMENT TOOLS

- USING THE EM APPLICATION SERVER CONTROL • USING THE COMMAND-LINE INTERFACE • IDENTIFYING SERVICE STATUS

MANAGING & CONFIGURING THE HTTP SERVER

- HTTP SERVER HOME PAGE • CONFIGURING VIRTUAL HOSTS • ADMINISTRATION PAGE • REDIRECTING URLS • MANAGING & CONFIGURING THE HTTP SERVER

MANAGING & CONFIGURING ORACLE WEB CACHE

- WEB CACHE INTERNAL ARCHITECTURE • WEB CACHE ADMINISTRATION INTERFACES • WEB CACHE ADMINISTRATION TASKS • TESTING THE CACHE & ESI PROCESSING

MANAGING THE SYSTEM LOGS

- VIEWING LOGS • SEARCHING LOG FILES

MANAGING & CONFIGURING OC4J

- MORE ABOUT THE ARCHITECTURE • MANAGING OC4J INSTANCES

DEPLOYING JAVA APPLICATIONS

- DEPLOY EAR & WAR APPLICATIONS • CONFIGURE DATA SOURCES

MANAGING THE OID

- MORE ABOUT DIRECTORY SERVICES • ORACLE DIRECTORY MANAGER • COMMAND-LINE TOOLS

MANAGING ACCESS USING DAS

- ABOUT THE DAS ARCHITECTURE • OID SELF-SERVICE CONSOLE • IDENTITY MANAGEMENT REALMS

ADMINISTERING ORACLE SSO

- SSO ARCHITECTURE & MONITORING • ADMINISTER THE SSO SERVER • INTERACTING WITH THE SSO SERVER

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SECURING ORACLE AS COMPONENTS USING SSL

- SECURING THE HTTP SERVER • SECURING THE WEB CACHE • SECURING EM APPLICATION SERVER CONTROL • SECURING SSO

MANAGING & CONFIGURING THE ORACLE AS CA

- MORE ABOUT CERTIFICATES & THE OCA ARCHITECTURE • ESTABLISHING IDENTITY AS AN OCA ADMINISTRATOR • ACCESS OCA ADMINISTRATION PAGES • ACCESS OCA USER PAGES

MANAGING ORACLE AS & PORTAL USING PORTAL ADMINISTRATION

- ABOUT PORTAL BUILDER • ORACLE AS ADMINISTRATION USING PORTAL • PORTAL ADMINISTRATION USING EM

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