



WEBLOGIC SERVER V8.1 ADMINISTRATION

Course Duration: 5 Days

Course Overview: This course teaches the basics of the administration and deployment of Web applications in BEA WebLogic Server 8.1.

LEARNING OBJECTIVES

- At the completion of this course, the student will be able to:
- Understand WebLogic architecture
- Understand deployments of EJB and Web applications
- Understand how to run WebLogic as a Web server
- Set up WebLogic Server test environments for developers
- Start/stop servers, problem detection and trouble shooting
- Use clustering for fault tolerance and load balancing
- Configure and monitor resources in a production environment
- Conduct security planning and implementation
- Handle large throughput and concurrency
- Understand performance tuning

Topics Covered

- J2EE and WebLogic Server architecture
- WebLogic Clustering
- WebLogic Application Deployment
- WebLogic Resources and Services Configuration and Monitoring
- Security and Transaction Management
- WebLogic Performance Tuning

Who Should Attend: Web server administrators, project managers, developers and consultants who want to gain the knowledge of WebLogic Server administration.

Prerequisites: Knowledge and experience of network management and protocols
Knowledge and experience of RDBMS

COURSE OUTLINE

J2EE and WebLogic Server

- N-tier architecture
- J2EE architecture
- WebLogic Server terminologies
- WebLogic Server architecture

WebLogic Server Administration Basics

- Overview
- Role of an administrator
- JMX-based and SNMP-based administration
- Configuration
- Monitoring and logging
- Deployments
- Services
- Transaction
- Security
- Tuning

Configure and Monitor Domains, Servers and Machines

- Overview
- Configure domain, domain logging and applications
- Configure and monitor servers
- Create a machine in a domain

WebLogic Security Management

- Security overview
- Set up the Java Security Manager
- Create a security realm
- Define users and groups
- Define access control and permission
- Configure the SSL protocol
- Password protection
- Install an audit provider
- Install a connection filter

Use WebLogic Server as a Web Server

- Overview
- Set up WebLogic for HTTP requests
- Set up standard MIME type
- Use HTTP Server logs
- Set up session management

WebLogic Server Deployments

- Application assembly basics
- Application format and directory structure
- Configured deployment
- Hot deployment
- Auto deployment
- Enterprise application deployment
- EJB deployment
- WebLogic Server deployment descriptor editor
- Web application deployment

JNDI

- JNDI basics
- JNDI context
- Object lookup using JNDI
- JNDI in datasource, JMS, and EJB deployment
- Monitoring JNDI tree

WebLogic Server Transaction Management

- Overview
- WebLogic Server transaction support
- Configure WebLogic transactions
- Monitor and logging transactions

Create, Configure and Monitor JDBC Services

- Overview
- JDBC drivers
- JDBC connection and transaction
- JDBC connection pools
- JDBC datasources

Create, Configure and Monitor JMS Services

- Overview
- MOM and JMS
- JMS domains
- JMS connection factories
- JMS servers, JMS queues, JMS topics

WebLogic Server Clustering

- Overview
- How clusters work
- Cluster configuration planning
- Cluster configuration tasks
- Cluster administration

WebLogic Server Performance Tuning

- Overview
- JVM tuning
- Operating system tuning
- WebLogic server tuning
- WebLogic client tuning
- Performance analysis tools

The Node Manager

- Overview
- Node Manager Architecture
- Node Manager Functionality
- Setting up the Node Manager
- Node Manager Logging

Web Services Support in WebLogic Server

- Overview
- Why do we need web services?
- Web Services Supporting Architecture Standards
- The role of SOAP, UDDI and WSDL
- Web Service Components in WebLogic
- Administering WebLogic Web Services