

WEBLOGIC SERVER ADMINISTRATION COURSE CONTENT

❖ **PART I: - OVERVIEW & INSTALLATION:**

- **Understanding Java/J2EE Technologies**
 - a) Distributed Environment
 - b) Dif. bet. Web & App Server
 - c) About Servers
 - d) Environments – Dev, Testing(SIT, UAT), Pre Prod & Prod

- **Introduction to WebLogic Server**
 - a) Terminology
 - b) Dif. bet. WLS Versions(8.x, 9.x & 10.x)

- **Install the ORACLE WebLogic Server**
 - a) Installation Modes
 - b) Installable Product Components
 - c) Product Distribution
 - d) Pre Installation
 - e) Installing the Steps
 - f) Post Installation
 - g) Un-Installation
 - Lab Exercise:
 - Install ORACLE Software and Lab Environment Set up

❖ **PART II: - CONFIGURATION MANAGEMENT:**

- **Configuring WL Domains**
 - a) Learn how to create a new custom domain template
 - b) Create a new domain using the custom domain template
 - Lab Exercise:
 - Configure a Domain Template

- **Configuring a WebLogic Server Environment**
 - a) Become familiar with the Administration Console
 - b) Configure and view log file entries for a WLS using the Admin Console
 - Lab Exercises:
 - Using the Administration Console
 - Using the Command Line

- **Managing and Monitoring a WLS Environment**
 - a) Create and Configure Managed Servers and Machines
 - b) Use Node Manager to start managed servers
 - Lab Exercises:
 - Configure Servers and Machines
 - Starting Servers using Node Manager

- **Understanding JNDI**
 - a) Deploy a startup class and view JNDI tree
 - Lab Exercise:
 - Working with Startup Classes and JNDI

- **Setting up JDBC**
 - a) Create JDBC data sources

- b) Locate a JDBC data source in a server's JNDI tree

Lab Exercise:

- Configuring Data Sources

- **Setting up JMS Applications**

- a) Configure and Monitor JMS Queues and JMS Topics

Lab Exercise:

- Configuring JMS Servers and Destinations

- ❖ **PART III: - DEPLOYMENTS & SECURITY:**

- **Deploying Applications**

- a) Deploy Web Applications
- b) Create deployment plans
- c) Deploy enterprise applications along with the deployment plan
- d) Side-by-Side deployment
- e) Create and Configure Virtual Hosts
- f) Setting up network channels

Lab Exercises: Deploying / Undeploying Web Applications

- Using a Deployment Plan
- Side-by-Side Deployment

- **Securing WLS Resources and Applications**

- a) Configuring users, passwords and groups
- b) Setting security on a Web Application
- c) Configure Key stores and SSL
- d) WLS features for hardening against password attacks

Lab Exercises: Managing Users and Groups

- Securing Web Applications
- Configuring Additional Conditions
- Configuring SSL
- Protecting Against Attacks

- ❖ **PART IV: - HIGH AVAILABILITY, TROUBLESHOOTING & PERFORMANCE MONITORING:**

- **Introduction to WebLogic Server High Availability**

- a) Understand the uses of a cluster
- b) Describe the basic cluster architecture
- c) Describe the multi-tier cluster architecture
- d) Understand how clusters communicate

- **Configuring a Cluster**

- a) Prepare your environment for a cluster
- b) Create and configure a cluster
- c) Create and configure a proxy server (Apache)

Lab Exercises: Create a Basic Cluster

- Configure Proxy Servers (Apache)

- **Managing Clusters**

- a) Deploy applications to a cluster
- b) Manage session state in a cluster
- c) Troubleshoot a cluster

Lab Exercise: Manage HTTP Session States

- **Performance & Tuning**
 - a) Performance Tuning
 - b) OS, JVM and WLS Performance Tuning
 - c) DB Performance Tuning

- **Troubleshooting & Monitoring**
 - a) Cluster Troubleshooting
 - b) Cluster Multicast Configuration Troubleshooting
 - c) Monitoring & Managing WL JDBC Resources

❖ **PART V: - LINUX INSTALLATION & CONFIGURATION:**

- Basic UNIX Commands
- Installation of WLS
- Configuration of WLS

