

Oracle WebLogic Server 12c Essentials



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WEBLOGIC SERVER



Online Course

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Oracle WebLogic Server 12c Essentials

Course Modules

1. Cloud Application Foundation (CAF) Fundamentals

- Describe Cloud Application Foundation concepts
- Identify components of WebLogic Suite
- Identify differences between WebLogic Server (WLS) SE, EE & Suite
- Describe the problem domain of Coherence with WLS
- Describe Oracle Cloud Computing business drivers
- Describe Virtual Assembly Builder Studio features
- Describe supported and custom Appliances for Virtual Assemblies
- Describe ActiveCache (WLS and Coherence)

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2. WebLogic Server Fundamentals

- Describe the different WLS distributions that are available
- Describe Enterprise Grid Messaging
- Describe Active GridLink for Real Application Cluster (RAC) features
- Explain WLS Domain concepts
- Install WLS
- Create and use WLS Domain Templates
- Automate WLS administration tasks with WebLogic Scripting Tool
- Secure WLS resources and applications
- Configure and use WLS Work Managers, Contexts and Constraints
- Create and target JDBC Connection Pools
- Create and target JMS Distributed Queues
- Create and target JMS Distributed Topics
- Configure and use WebLogic Diagnostic Framework (WLDF)
- Configure and use JRockit Flight Recorder and WLDF integration
- Tune the App Server Environment including the Java Virtual Machine (JVM)
- Troubleshoot and debug WLS using logs and thread dumps



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3. Deploy Java Enterprise Edition (EE) Applications

- Describe Java EE 6 and Developer Productivity features
- Describe Java Integrated Development Environments (IDE) support
- Describe Maven integration features
- Describe Java SE packaging
- Describe the structure and parts of a Java web application
- Describe the structure and parts of a Java enterprise application
- Deploy Java EE applications to WLS
- Deploy Java EE applications using a Deployment Plan
- Deploy WLS shared libraries and associate them with applications
- Deploy apps using the WLS Administration Port & Side by Side Deployment
- Use the Continuous Integration (CI) and Tools that WLS supports
- Enable and use WLS Fast Swap for Rapid Redeployment
- Troubleshoot classloading conflicts with the ClassLoader Analysis Tool
- Describe WLS Spring Support & how Spring can utilize WLS features
- Secure Java EE applications



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4. WebLogic Server Management

- Use JRockit Mission Control to monitor WLS at runtime
- Use JRockit Mission Ctrl to view JRockit Flight Recorder & WLDF data
- Monitoring and diagnose WLS for best performance
- Use the WLS Admin Console to manage WLS
- Start and stop WLS instances using the Node Manager

5. WebLogic Server Advanced Topics

- Describe the value that WLS offers above an EE container
- Describe JDBC
- Describe WLS Distributed JMS
- Describe WLS Clustering
- Use Scripting with WLS
- Use Automation options for WLS
- Describe Remote Procedure Calls (RPC) & Web Services Standards
- Describe Web Session and XA Affinity features of Active GridLink
- Configure WLS to store Transaction Logs in a Database
- Configure systems for High Availability
- Configure and use advanced JMS features: Store and Forward
- Config & use advanced JMS : Unit of Order (UOO) & Unit of Work
- Config & use TopLink Grid - Java Persistence API (JPA) & Coherence
- Configure systems for ease of Disaster Recovery
- Configure and use ActiveCache (WLS and Coherence)
- Implmnt High Availability (HA) in WLS with Srvce & Servr Migration



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6. WebLogic Server System Architecture

- Design a scaled-out solution with WLS
- Architect a highly available WLS system
- Use proxy web server
- Use load balancer
- Design a WLS system for max uptime, availability & business continuity

7. WebLogic Server Implementation Best Practices

- Create WLS system design considerations
- Create a WLS Domain using best practices
- Configure a WLS Cluster and Managed Servers using best practices
- Configure the JVM where WLS runs using best practices
- Configure JDBC Connection Pools using best practices
- Configure JMS using best practices
- Use Work Managers using best practices
- Install with Node Manager using best practices



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8. WebLogic Server Patching and Upgrading with SmartUpdate

- Describe how patches are applied to WLS
- Apply a rolling patch strategy to a WLS Cluster to ensure max availability
- Upgrade from WLS 10.3.3 to newer versions
- Upgrade from Oracle Application Server (OC4J/OAS) to WLS
- Oracle offerings for upgrading from non-Oracle platforms to WLS

9. Integrate Enterprise Manager and WebLogic Server

- Integrate Enterprise Manager with WLS
- Explain how to position WebLogic Management Pack EE
- Describe Real Operation Automation
- Describe Real Operation Insight
- Use Enterprise Manager Lifecycle Management for WLS
- Describe Enterprise Manager Real User Experience Insight
- Enterprise Manager Business Transaction Management for WLS
- Describe Enterprise Manager Configuration Management for WLS

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