

ORACLE

WebLogic Server 12c (12.2.1)

Architecture, Features and Operation Course

This course is based on 15 years hands-on experience of the instructor in architecture, development and operation of large scale WebLogic server middleware environments. The most important product features are explained and critically analyzed regarding their usefulness for an enterprise.

The class starts with WebLogic 12c basics and further explains the installation and how domains with servers are created, started, monitored and automatically restarted. The course highlights the effective usage of the WebLogic Scripting Tool (WLST). Configuration of the key parameters are covered for the administration of JDBC (including distributed transactions and Oracle RAC) and JMS (including JMS bridges and store-and-forward agents). This course further trains the attendees how to use access control and encryption for the protection of both server and applications.

Features like zero downtime patching, production redeployment deployment, deployment plans, administration of web service deployments, RESTful management, and multi tenancy with domain partitions and resource configuration management are discussed and reinforced with hands-on lab sessions. After an introduction to the WebLogic Diagnostic Framework with the new smart rules, an elastic cluster will be installed which is then used to demonstrate load balancing and failover for applications as well as distributed JMS destinations, multi data sources and zero downtime upgrades.

Half of this course is structured around presentations and discussions. The second half consists of **hands-on exercises**.

Never Leave a Course with Empty Hands!

Every participants receives a **printed copy of the presentations**, a printed copy the **lab guide**, a **VirtualBox environment** that can be started anytime later with a double-click, all **deployments**, **tools**, and **scripts** may be taken home. We always use the **latest software version**. Attendees receive a printed **certificate of attendance**. Compare this package with any other training offer.

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Goals

Participants will gain an in-depth understanding of WebLogic 12c architecture, features, and operation. Having attended this course, participants will be able to design and set up WebLogic domains and to configure all core features of WebLogic 12c. Participants will be able to deploy and monitor applications, and install and troubleshoot a highly available environment and apply patches with zero downtime.

Participants

The target audience of this course are system integrators, architects, administrators, as well as developers who are interested in obtaining in-depth knowledge beyond the JEE standards. Exclusively for Oracle end users.

Course Duration

Five days

Level

Beginner to Intermediate

Content

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|--------------------------|-------------------|---|
| 1. Basics / Architecture | 8. Deployment | 15. Server Availability / Service Migration |
| 2. Install / Patch | 9. JDBC | 16. Upgrade |
| 3. Domains | 10. JMS | 17. ZDT Patching / Upgrades / Deploy |
| 4. Node Manager | 11. Multi Tenancy | 18. Coherence |
| 5. Network Channels | 12. WLDF | 19. JVM Tuning |
| 6. JMX | 13. Clustering | 20. Docker and WebLogic |
| 7. JNDI | 14. LB / Failover | |

Language

English or German (course material and labs in English)