

Oracle WebLogic Server 12c Administrator 1



Online Course

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Course Modules

1. Overview of WebLogic Server

- WebLogic Server terms: domain, server, machine and cluster
- Difference btwn the admnstrtion server & the managed servers.
- Describe the administrative tools: Administration Console,
- WLST, WLDF, Monitoring Dashboard

2. Installing and Patching WebLogic Server

- Determine supported configurations for WebLogic Server
- Install WebLogic Server in graphical mode
- Install WebLogic Server silently
- Describe the installation directory structure
- Apply a patch to WebLogic Server by using OPatch

3. Creating Domains

- Describe a domain's file system
- Create a domain by using the Configuration Wizard
- Config machines, servers, & clusters by usg the Config Wizard
- Copy a domain to anther comp wth the pack & unpack utilities



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4.Starting Servers

- Start and stop servers with standard scripts
- Identify and resolve problems with server startup
- Customize start and stop scripts, including the CLASSPATH
- Restart a failed server on a different machine

5.Using the Administration Console

- Access the WebLogic Server Administration Console
- Identify the components of the Administration Console
- Update Administration Console preferences
- Use the Administration Console change center
- Create and config servers by using the Administration Console

6.Configuring JDBC

- Describe WebLogic Server's JDBC architecture
- Describe WebLogic Server's JNDI architecture
- Compare the different types of data sources
- Compare the different data source transaction options
- Create and configure a generic data source
- Tune a data source's connection pool
- Create and configure a GridLink data source



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7. Monitoring a Domain

- Configure WebLogic Server logs
- Interpret a server log file entry
- Create and apply a log filter
- Enable WebLogic Server debugging output
- Monitor WebLogic Server health and performance
- Monitor JDBC data sources
- Access diagnostic charts in the Monitoring Dashboard

8. Node Manager

- Describe the architecture and capabilities of the Node Manager
- Create a Node Manager with the Configuration Wizard
- Configure properties for the Java Node Manager
- Describe the Java Node Manager directory structure
- Enroll a Node Manager with a domain
- Start and stop a Node Manager
- Start & stop managed servers by using the Administration Console



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9. Deploying Applications

- Deploy an application
- Start a deployed application
- Stop a deployed application
- Undeploy an application
- Redeploy an application
- Monitor a deployed application
- Use the Monitoring Dashboard's built-in application view
- Load test an application with The Grinder console given a script

10. Network Channels and Virtual Hosts

- Configure a WebLogic Server network channel
- Monitor a network channel
- Configure WebLogic Server to use an administration port
- Configure a virtual host for WebLogic Server

11. Creating and Configuring Clusters

- Describe basic and multi-tier cluster architectures
- Create a cluster by using the Configuration Wizard
- Create & config a cluster by using the Administration Console
- Create and configure a dynamic cluster
- Create and configure a server template
- How a dynamic cluster calculates listen ports & machines



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12. Cluster Proxies and Sessions

- Install Oracle HTTP Server with the Web Tier installer
- Config Oracle HTTP Server as a WebLogic Server cluster proxy
- List the options for HTTP session failover
- Configure in-memory session replication
- Configure replication groups

13. Cluster Communication, Planning and Troubleshooting

- Difference between unicast and multicast cluster communication
- Config replication channels by using the Administration Console
- Describe planning for a cluster
- Monitor a cluster

14. Transactions

- Explain WebLogic Server's role in managing transactions
- Configure WebLogic Server transactions (JTA)
- Config the WebLogic Srvr default store used for transaction logs
- Config a database persistent store for WebLogic Srvr transaction
- Monitor WebLogic Server transactions



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15. WebLogic Server Security

- List some of the WebLogic Server security providers & what they do
- Describe basic LDAP architecture
- Configure an external LDAP authentication provider for WebLogic Server
- Describe how multiple authentication providers can be used with

16. Backing Up a Domain and Upgrading WebLogic Server

- Back up a WebLogic Server domain
- Restore a WebLogic Server domain
- Define Managed Service Independence mode
- Describe the process to upgrade WebLogic Server 11g to 12c
- Run the WebLogic Server Reconfig Wizard as part of the upgrade

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