

Oracle WebLogic Server 12c Advanced Administrator 11



Online Course

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Course Modules

1. Upgrading WebLogic Server

- The correct steps, in the process for performing a rolling upgrade
- Describe a "rolling upgrade" & how it differs from other upgrades
- Describe how to leverage WebLogic Clusters to avoid down time
- Bring down & patch servers individually; Use multiple installers

2. Creating and Extending Domains

- Create a domain template with the Template Builder
- Create an extension template with the Template Builder
- Create a domain using a template
- Extend a domain with a template
- Recognize template concepts, including: Template contents, etc.,
- Execute post-domain creation tasks

3. Server Operations

- Config Node Manager to start failed servers. Identify how to manage
- Configure Node Manager to start on system boot
- Describe the Node Manager architecture. Identify default behavior
- The Node Manager restarts an administrative server & a Managed server



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4. WebLogic Scripting Tool (WLST) & JMX

- Create, Modify, and monitor a domain with WLST
- Run commands in WLST interactive mode
- Write simple WLST scripts
- Identify how to run WLST scripts
- Program Jython variables, conditionals, loops, I/O commands, etc,
- Execute common WLST tasks including:
 - Connecting to, configuring, and monitoring a Server
 - Managing passwords
 - Modifying WLST Variables
 - Adding a Server to a Cluster
 - Creating and monitoring a Data Source
 - Creating an LDAP Authentication Provider
 - Modifying a Domain Offline
 - Deploying an Application

5. Transport Layer Security

- Configure keystores in WLS. Describe keystore concepts.
- Configure WebLogic SSL with the following architectures
- SSL concepts as they relate to WLS, symmetric ,decryption, etc.,
- Use the keytool utility for managing keys and certificates



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6. Applications and Deployment

- Configure a server's staging mode in staged, no stage, etc.,
- Create and use deployment plans in different environments
- Deploy an app as a shared Java EE library with the console
- Deploy versioned applications (Production Redeployment)
- Key characteristics associated with production redeployment
- Apply an understanding of redeployment strategies
- Apply an understanding of application versioning
- Deploying a New Version of an Application,
- Distributing and Starting a Versioned App in Administration Mode
- Transitioning a Versioned App from Administration Mode to Active
- Rolling Back a Versioned Application to a Previous Version

7. Application Work Managers

- Create and use work managers
- Apply an understanding of WebLogic Request Handling concepts
- Explain Work Manager Concepts, including: Work Managers, etc
- An understanding of the following concepts to create a Work Manager
- Request Classes, Creating a Work Manager, Creating a Request Class



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8. Data Sources

- Suspend & resume a data source, Perform operations on your data source
- Multi data source, manage members. Apply concepts of Multi Data Source
- Key concepts associated with GridLink Data Source, Oracle (RAC)
- Role and techniques for Connection Testing when configure failover

9. Security Realm

- Users, groups, policies, and roles for an embedded LDAP server
- Configure auditing, role mapping, and credential mapping
- Apply an understanding techniques about the embedded LDAP
- Describe troubleshooting of log-in issues
- Configure an audit provider to audit domain configuration changes

10. Disaster Recovery

- Create a backup administration server
- Configure service-level transaction migration
- Describe whole server migration for WLS
- Apply disaster recovery concepts, including: Site Symmetry, etc.,
- Address Admin Server backup techniques and concepts
- Apply the concepts and techniques for service-level migration
- Explain Service Migration Architecture: Consensus Leasing, etc.,
- JTA Service Migration: Before Failure and After Failure, etc.,
- Apply the concepts and techniques for whole server migration



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11. Diagnostic Framework

- Config WebLogic Diagnostic Framwrk (WLDF) to monitr a domain
- Apply the concepts and techniques associated with the WLDF
- Apply concepts & techniques associated with diagnostic images
- Harvestr and config a metrc collector to captur WebLogic runtime
- Describe and configure watches and notifications

12. Clustering

- Describe differences between configured vs dynamic cluster

13. Coherence

- Configure and use Coherence*Web for HTTP session persistence
- Configure and use managed Coherence servers
- Key concepts assocatd with Oracle Coherence, with particular ref
- Apply key concepts & techniques for Managed Coherence Servrs
- Coherence Cluster



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14. JMS Concepts, Configuration & Monitoring

- Discuss the benefits of enterprise message. Define terms
- Describe a message-driven EJB
- Discuss WebLogic's JMS administration architecture
- Create and target a JMS server
- Create a JMS module & define subdeployments. Create connectn
- Use destination templates; create a destination from a template
- Monitor basic JMS & MDB statistics, Monitor destinatns on a JMS
- Administer JMS inclds: Inspect in-progress mssgs, Create tst msg
- Common causes of poor JMS performance, Identify symptoms
- Discuss some best practices with your JMS developers
- Tune quotas, message, paging and flow control
- Tune message-driven EJBs
- Investigate issues by using logs and debug flags
- Use JMS Troubleshooting tools to investigate issues
- Configure JMS logging to investigate issues
- Discuss some common JMS configuration issues
- Describe some common JMS runtime problems
- Describe JMS Security (policies for JMS and JNDI resources)
- Describe JMS Integration
- Describe Message Ordering



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15. JMS Persistence, Transactions, and Durability

- Compare JMS persistence options
- Configure file or JDBC persistence for JMS
- Explain the use of transactions with JMS
- Configure and monitor JMS transactions
- Manage and monitor durable subscribers

16. JMS & Clustering

- Target JMS resources to both configured and dynamic clusters
- Discuss the advantages of distributed destinations
- Describe how clients interact with distributed destinations
- Create and target a uniform distributed destination
- Describe how JMS load balancing decisions are made
- Discuss the challenges of making JMS highly available
- Configure the cluster leasing service
- Configure automatic server migration
- Manually migrate a failed server
- Compare service and whole server migration
- Configure and use migratable targets
- Configure automatic service migration
- Manually migrate JMS and related services

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