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IBM WebSphere Application Server V7 Multi-node Administration
Information

Length:	3.0 Days
Ref:	WA870G-X
Delivery method:	ClassroomInstructor Led Online
Price:	EUR

Overview

This three-day instructor-led course teaches students how to configure and use the advanced features of WebSphere Application Server V7.0 Network Deployment in a multi-node environment.

This course provides students with a working knowledge of WebSphere Application Server V7.0 Network Deployment installation, security, and management. The course begins with a discussion on installing WebSphere Application Server Network Deployment in a distributed environment, and covers topics such as automated performance optimization, centralized management, and high availability.

Students learn about advanced WebSphere Application Server multi-node administration topics, such as security and management, through hands-on activities and group discussions that build a solid understanding of best practices for designing, configuring, and managing a Network Deployment cell. For example, students learn how to articulate, design, and implement robust workload management scenarios in order to improve performance and manage failover. Students also learn about the intricacies of end-to-end security, Java Platform Enterprise Edition (Java EE) security, Secure Sockets Layers (SSL), and digital signatures that are relevant to administrators.

Hands-on exercises throughout the course reinforce the concepts covered in the lectures and allow students to practice their new administration skills. Skills covered in the exercises include setting up and managing SSL, using Lightweight Directory Access Protocol (LDAP) or local registries, and working with WebSphere Platform Messaging.

For information on other related WebSphere courses, visit the WebSphere Education Training Paths Web site:

<http://www.ibm.com/software/websphere/education/paths/>

NOTE: This course requires three (3) virtual nodes for every two students and three (3) separate VMware images, as well as a common virtual node and VMware image for the class.

Public

This advanced course is designed for experienced administrators who install, configure, and manage Web-based applications on WebSphere Application Server V7.0. It is also appropriate for webmasters and application architects.

Prerequisites

You should have:

- Solid knowledge of Internet protocols, such as HTTP, Internet Inter-Orb Protocol (IIOP), **and** HTTPS
- Basic WebSphere Application Server knowledge
- Linux operating system knowledge
- Basic knowledge of LDAP servers
- Administration skills for a Web server such as IBM HTTP Server **or** Apache
- Basic operational skills using the Linux operating system

Objective

- Describe the architectural concepts related to WebSphere Application Server V7.0
- Configure WebSphere Application Server
- Install and configure IBM HTTP Server, both interactively and silently
- Create WebSphere profiles interactively and silently
- Explain the basic concepts of Java EE
- Assemble and install server-side Java enterprise applications
- Use WebSphere Application Server administrative tools to configure and manage enterprise applications through the graphical user interface (GUI) console and through wsadmin scripts
- Configure the WebSphere security registry to use Lightweight Directory Access Protocol (LDAP)
- Configure SSL communication between WebSphere Application Server and LDAP
- Enable Java 2 security
- Configure Java EE security for server-side application resources
- Deploy applications and configure resources in clustered environments interactively and through wsadmin scripts
- Install and configure the Load Balancer Edge component
- Install and configure the Caching Proxy Edge component
- Configure WebSphere Platform Messaging for workload management and high availability

Topics

- Course introduction
- Architectural overview - Federated
- Introduction to the lab environment and the Trade application
- Exercise: Initial cell setup

- Application assembly and deployment
- Exercise: Installing Trade to the test server and un-enhancing Trade
- Exercise: Installing and federating IBM HTTP Server
- WebSphere Application Server administrative security
- Exercise: Security with federated LDAP
- WebSphere Application Server security - SSL
- Exercise: Managing SSL within a cell
- Exercise: Enabling SSL for WebSphere to LDAP
- WebSphere Application Server workload management - clustering
- Exercise: Creating the Trade cluster
- WebSphere Application Server workload management - sessions
- Exercise: Database session persistence and stateful session bean (SFSB) failover
- WebSphere Application Server workload management - edge components (optional)
- Exercise: Configuring IBM LoadBalancer for TCP/IP spraying (optional)
- Exercise: Configuring the caching proxy (optional)
- WebSphere Application Server security and auditing
- Exercise: Security auditing
- WebSphere Platform Messaging overview
- Exercise: WebSphere Platform Messaging
- Course summary