

IBM WebSphere V6.1 Advanced Administration and Configuration on Windows and Linux (WA821GB)



Course Duration: 5 days

Audience

This course is designed for experienced administrators who install, configure, and manage Web-based applications on WebSphere Application Server V6.1. It is also appropriate for webmasters and application architects.

Pre-requisites

Before taking this course, students should have:

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

Since this is an advanced class, students should also have experience installing, configuring, and managing WebSphere Application Server.

Objective

- Describe architectural concepts related to WebSphere Application Server V6.1
- Create WebSphere profiles interactively and silently
- Configure WebSphere Application Server and IBM HTTP Server, both interactively and silently
- Explain the basic concepts of J2EE
- Assemble and install server-side Java enterprise applications
- Use WebSphere Application Server administrative tools to configure and manage enterprise applications through the GUI console and through wsadmin scripts
- Configure the WebSphere security registry to use LDAP
- Configure SSL communication with LDAP

- Enable J2EE security
- Configure 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 to be covered:

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| <ul style="list-style-type: none"> • WebSphere Application Server architecture review • Exercise: Creating WebSphere Application Server profiles for the cell • Installation factory • Exercise: Creating a Custom Installation Package (CIP) • Introduction to the lab environment and the Trade application • Application assembly and deployment • Exercise: Installing the Trade application on the test server • Exercise: Un-enhancing the Trade application • Exercise: Installing and federating IBM HTTP Server • WebSphere administrative security • Exercise: Configuring administrative security with LDAP user registry and console users • WebSphere Application Server security - SSL • Exercise: Configuring SSL for communication between WebSphere Application Server and IBM HTTP Server • Exercise: Enabling SSL between WebSphere Application Server and LDAP server • WebSphere Application Server workload management (WLM) - clustering | <ul style="list-style-type: none"> • Exercise: Creating a WebSphere Application Server cluster • Exercise: Installing Trade applications to the cluster • WebSphere Application Server workload management - session management • Exercise: Configuring workload management for the cluster • Exercise: Configuring and testing HTTP session and stateful session bean failover • WebSphere Application Server workload management - edge components • Exercise: Configuring Edge Components Load Balancer for TCP/IP Spraying • Exercise: Installing and configuring Edge Components Caching Proxy • WebSphere Application Server dynamic content caching (Dynacache) • Exercise: Configuring Dynacache to improve the performance of the Trade application • WebSphere Application Server security - security stack • Exercise: Implementing J2EE security • Exercise: Implementing Java 2 security • Exercise: Running as non-root (reference only) • Exercise: Implementing a Custom Registry |
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- Exercise: Using command line utilities with security enabled
- WebSphere Platform Messaging and WebSphere Platform Messaging scenarios
- Exercise: Configuring high availability and workload management for WebSphere Platform Messaging
- Exercise: Connecting WebSphere Application Server to WebSphere Message Queuing
- Distributed architecture
- Exercise: Plug-in customization
- Exercise: Backup and restore cell configuration
- Name services
- Exercise: Exploring and configuring name services