WebSphere Application Server V8.5.5 Administration

Course Summary

Description

In this course, you learn how to install, configure, and maintain IBM WebSphere Application Server V8.5.5 base, Network Deployment (ND), and the Liberty profile. You learn how to deploy enterprise Java applications in a single computer or clustered configuration. In addition, you learn how to work with features of WebSphere Application Server V8.5.5, such as IBM Installation Manager, WebSphere Customization Toolbox, security enhancements, Intelligent Management, and centralized installation.

Throughout the course, hands-on exercises and demonstrations reinforce lecture content and give you practical experience with WebSphere Application Server V8.5.5. You complete tasks such as installing and assembling applications, applying problem determination techniques, configuring a clustered environment, and working with fine-grained administrative security.

Objectives

At the end of this course, students will be able to:

- Relate WebSphere Application Server to the WebSphere family of products
- Describe the features and standards in WebSphere Application Server V8.5.5
- Describe the architectural concepts that are related to WebSphere Application Server
- Install and configure WebSphere Application Server V8.5.5
- Install and configure IBM HTTP Server (IHS)
- Assemble and install server-side Java enterprise applications
- Use WebSphere administrative tools to configure and manage enterprise applications
- Use wsadmin scripting
- Configure WebSphere Application Server security
- Deploy applications in clustered environments
- View performance information about server and application components
- Use problem determination tools and log files to troubleshoot problems
- Configure messaging with the service integration bus
- Describe Intelligent Management features
- Describe WebSphere Batch features
- Describe the Liberty profile
- Install and configure the Liberty profile
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Course Summary (con’t)

Topics

- Course introduction
- WebSphere product family overview
- WebSphere Application Server architecture - standalone
- WebSphere Application Server architecture - federated
- WebSphere Application Server installation
- Exercise: Installing WebSphere Application Server
- Exercise: Installing IBM HTTP Server
- Exercise: WebSphere Information Center installation (optional)
- WebSphere Application Server administrative console
- Exercise: Exploring the WebSphere Application Server administrative console
- Java EE 5 overview for administrators
- Application assembly
- Introduction to the Trade family of applications
- Application installation
- Exercise: Assembling an application
- Exercise: Installing an application
- Problem determination
- Exercise: Problem determination
- Command-line administration, scripting, and automation
- Exercise: Using wsadmin
- Federating a cell
- Exercise: Creating a federated cell
- Workload management
- Exercise: Clustering and workload management
- Introduction to WebSphere messaging
- Exercise: Configuring the Service Integration Bus
- Centralized installation (optional)
- Security and auditing
- Exercise: Configuring WebSphere security, including fine-grained administrative access
- Exercise: Configuring application security
- Exercise: Configuring SSL for WebSphere
- Exercise: Auditing (optional)
- Performance monitoring
- Exercise: Using the performance monitoring tools
- Flexible management (optional; includes demonstration)
- Course summary

Audience

This course is designed for individuals who are Webmasters and System Administrators who need to install, configure and maintain systems using WebSphere Application Server v8.5.5.

Prerequisites

Students should have web server and system administration skills.

Duration

Five days