

WEBSPHERE APPLICATION SERVER 9 / 8.5.5 ADMINISTRATION AND PERFORMANCE TUNING

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Audience

This intermediate course is designed for administrators who install, configure, and manage web-based applications on WebSphere Application Server. Web administrators, lead application developers, and application architects can also benefit from this course.

Prerequisites

You should have:

- An understanding of basic internet concepts
- Experience in using a web browser
- Administrative skills for a web server, such as IBM HTTP Server **or** Apache
- Basic operational skills for the Linux operating system

Objectives

- 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

- Using the IBM Support Assistant Team Server 5.0
- Exercise: Using the IBM Support Assistant Team Server 5.0
- Problem determination methods
- Gathering diagnostic data
- Exercise: Gathering diagnostic data
- Introduction to JVM-related problems
- Exercise: Introduction to configuring garbage collection policies
- How to troubleshoot hangs
- Exercise: Troubleshooting hung threads
- How to troubleshoot crashes
- Exercise: Troubleshooting crashes
- Introduction to WebSphere out-of-memory problems
- Exercise: Troubleshooting an out-of-memory condition
- Introduction to database connection problems
- Exercise: Troubleshooting database connection problems