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Course Code: ZA855GS

Course Title: WebSere Application Server V8.5.5 Administration

## Description:

An updated version of this course is available. For more information, click [WebSere Application Server V9 Administration \(ZA590G\)](#).

This self-paced course with hands-on exercises teaches you the skills that are needed to install and administer IBM WebSere Application Server V8.5.5.

This course teaches you the skills that are needed to install and administer IBM WebSere Application Server V8.5.5. This release offers users enhanced support for standards, emerging technology, and a choice of development frameworks.

In this course, you learn how to install, configure, and maintain IBM WebSere 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 WebSere Application Server V8.5.5, such as IBM Installation Manager, WebSere 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 WebSere 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:

- Relate WebSere Application Server to the WebSere family of products
- Describe the features and standards in WebSere Application Server V8.5.5
- Describe the architectural concepts that are related to WebSere Application Server
- Install and configure WebSere Application Server V8.5.5
- Install and configure IBM HTTP Server (IHS)
- Assemble and install server-side Java enterprise applications
- Use WebSere administrative tools to configure and manage enterprise applications
- Use wsadmin scripting
- Configure WebSere 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 WebSere Batch features
- Describe the Liberty profile
- Install and configure the Liberty profile

## Exercises

- Exercise 1: Installing IBM Installation Manager
- Exercise 2: Installing WebSere Application Server

- Exercise 3: Installing IBM HTTP Server
- Exercise 4: Exploring the administrative console
- Exercise 5: Assembling an application
- Exercise 6: Installing an application
- Exercise 7: Problem determination
- Exercise 8: Using wsadmin
- Exercise 9: Creating a federated cell
- Exercise 10: Clustering and workload management
- Exercise 11: Configuring the service integration bus
- Exercise 12: Configuring WebSere security
- Exercise 13: Configuring application security
- Exercise 14: Configuring SSL for WebSere
- Exercise 15: Working with the Liberty profile
- Exercise 16: Using the performance monitoring tools

## **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

## **Duration:**

40 Hrs

## **Topics:**

- Course introduction
- WebSere product family overview
- WebSere Application Server architecture - stand-alone
- WebSere Application Server architecture - federated
- IBM Installation Manager
- WebSere Application Server installation
- Web server installation
- Exercise: Installing IBM Installation Manager
- Exercise: Installing WebSere Application Server
- Exercise: Installing IBM HTTP Server
- WebSere Application Server administrative console
- Exercise: Exploring the administrative console
- Introduction to the PlantsByWebSere application
- Application assembly
- Exercise: Assembling an application
- Application installation
- Exercise: Installing an application
- Problem determination
- Exercise: Problem determination
- Introduction to wsadmin and scripting
- Exercise: Using wsadmin
- Federating a cell
- Exercise: Creating a federated cell
- Workload management

- Exercise: Clustering and workload management
- Introduction to WebSere Messaging
- Exercise: Configuring the service integration bus
- Job manager and Centralized Installation Manager
- Demonstration: Using the job manager
- Overview of Intelligent Management
- WebSere security
- Exercise: Configuring WebSere security
- Exercise: Configuring application security
- Exercise: Configuring SSL for WebSere
- Overview of the Liberty profile
- Exercise: Working with the Liberty profile
- Performance monitoring
- Exercise: Using the performance monitoring tools
- WebSere Batch
- Course summary

### **Audience:**

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