WA855 / VA855

WebSphere Application Server V8.5.5 Administration

ERC 1.0

Course introduction

8.0

Course overview

- This 5-day instructor-led course teaches you the skills that are needed to install and administer IBM WebSphere 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 WebSphere Application Server V8.5.5 base, Network Deployment (ND), and the Liberty profile. You learn 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. You gain 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.

Course prerequisites

Before taking this course, 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

Course learning objectives (1 of 2)

After completing this course, you should 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

Course learning objectives (2 of 2)

After completing this course, you should be able to:

- 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

Agenda: Day 1

- Course introduction
- Unit 1: WebSphere product family overview
- Unit 2: WebSphere Application Server architecture – stand-alone
- Unit 3: WebSphere Application Server architecture – federated
- Unit 4: IBM Installation Manager
- Unit 5: WebSphere Application Server installation
- Unit 6: Web server installation
  – Exercise 1: Installing IBM Installation Manager
  – Exercise 2: Installing WebSphere Application Server
  – Exercise 3: Installing IBM HTTP Server

Agenda: Day 2

- Unit 7: WebSphere Application Server administrative console
  - Exercise 4: Exploring the administrative console

- Unit 8: Introduction to the PlantsByWebSphere application

- Unit 9: Application assembly
  - Exercise 5: Assembling an application

- Unit 10: Application installation
  - Exercise 6: Installing an application

- Unit 11: Problem determination
  - Exercise 7: Problem determination

Agenda: Day 3

• Unit 12: Introduction to wsadmin and scripting
  – Exercise 8: Using wsadmin

• Unit 13: Federating a cell
  – Exercise 9: Creating a federated cell

• Unit 14: Workload management
  – Exercise 10: Clustering and workload management

Agenda: Day 4

- Unit 15: Introduction to WebSphere Messaging
  - Exercise 11: Configuring the service integration bus

- Unit 16: Job manager and Centralized Installation Manager
  - Demonstration: Using the job manager

- Unit 17: Overview of Intelligent Management

- Unit 18: WebSphere security
  - Exercise 12: Configuring WebSphere security
  - Exercise 13: Configuring application security

Agenda: Day 5

– Exercise 14: Configuring SSL for WebSphere

• Unit 19: Overview of the Liberty profile
  – Exercise 15: Working with the Liberty profile

• Unit 20: Performance monitoring
  – Exercise 16: Using the performance monitoring tools

• Unit 21: WebSphere Batch

• Unit 22: Course summary

Introductions

- Name
- Company
- Where you live
- Your job role
- Your current experience with the products and technologies in this course
- Do you meet the course prerequisites?
- What you expect from this class

Class logistics

- Course environment
- Start and end times
- Lab exercise procedures
- Materials in your student packet
- Topics not on the agenda
- Evaluations
- Breaks and lunch
- Outside business

- For classroom courses:
  - Lab room availability
  - Food
  - Restrooms
  - Fire exits
  - Local amenities

Lab environment verification

- The student books and VMware image for this course display a release number that is called the edition revision code (ERC)

- Find the ERC number on the front of the student books

- Open the **readme.txt** file on the desktop

- Verify that the ERC numbers on the books and the image match
  - Notify the instructor if they do not

- For details on this process, see the *Verifying the image and course materials* section of the Student Exercises book