JB248 JBoss Application Administration I

Course Summary

Description

JBoss Application Administration I teaches you the best practices for installing and configuring JBoss Enterprise Application Platform 6. Through hands-on labs, learn the essential, real-world tasks that a system administrator needs to know to effectively deploy and manage applications on JBoss Enterprise Application Platform. After completing this course, you should be prepared to take the JBoss Certified Application Administrator (JBCAA) exam

Note: JB248 replaces our popular JB336 course and is meant for system administrators. The topics in this course cover all of the exam objectives of the JBCAA exam.

Objectives

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

- Install and run JBoss Enterprise Application Platform 6 in standalone mode and domain mode. Configure a domain.
- Deploy applications to JBoss Enterprise Application Platform 6.
- Configure the datasource subsystem.
- Configure Java Message Service (JMS) and HornetQ.
- Configure the logging subsystem. Configure the web subsystem.
- Implement application security in JBoss Enterprise Application Platform 6.
- Migrate JBoss Enterprise Application Platform 5 applications to JBoss Enterprise Application Platform 6.
- Get an introduction to clustering.

Topics

- Install, configure, and manage JBoss Enterprise Application Platform
- Overview of JBoss Enterprise Application Platform
- Configure JBoss Enterprise Application Platform in standalone mode
- Configure JBoss Enterprise Application Platform in domain mode
- Configure servers
- The datasource subsystem
- The logging subsystem
- The messaging subsystem
- The security subsystem
- JVM configuration
- Migrating applications to JBoss Enterprise Application Platform 6
- The web subsystem
- Introduction to clustering

Audience

This course is designed for System administrators who are both new to JBoss and have experience with JBoss Enterprise Application Platform 5

Prerequisites

Students should have base experience with system administration on Microsoft Windows, UNIX, or Linux operating systems and have an understanding of hardware and networking. No prior knowledge of Java, scripting, or JBoss Developer Studio required.

Duration

Four days

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically

JB248 JBoss Application Administration I

Course Outline

I. Install, configure, and manage JBoss Enterprise Application Platform

II. Overview of JBoss Enterprise Application Platform
Learn the concepts and terminology of JBoss® Enterprise Application Platform 6, and install and run a JBoss Enterprise Application Platform instance.

III. Configure JBoss Enterprise Application Platform in standalone mode
Understand the directory structure of standalone mode and the standalone.xml configuration file, and deploy an application onto a standalone server.

IV. Configure JBoss Enterprise Application Platform in domain mode
Set up a domain, including a domain controller managing multiple host controllers. Also learn how to deploy an application onto a domain.

V. Configure servers
Define a server group on a host, add servers to a server group, and deploy an application to a server group.

VI. Use the CLI tool
Learn how the command-line Interface tool can be used to script administrative tasks.

VII. The datasource subsystem
Understand database connection pools in JBoss Enterprise Application Platform and how to configure the datasource subsystem. Learn how to deploy a Java Database Connectivity (JDBC) driver and define a datasource.

VIII. The logging subsystem
Configure the logging subsystem, including configuring the built-in handlers and loggers.

IX. The messaging subsystem
Understand JMS and HornetQ, including how to define and configure connection factories and destinations (topics and queues).

X. The security subsystem
Configure the security subsystem, including securing the management interfaces, securing an application, and securing a JMS destination. Also learn how to define an Lightweight Directory Access Protocol (LDAP) and database security realm.

XI. JVM configuration
Configure the JVM for both standalone and domain modes.

XII. Migrating applications to JBoss Enterprise Application Platform 6
Understand classpath and module dependencies, JPA issues, updating security settings, and other tips on how to migrate an application to JBoss Enterprise Application Platform 6.

XIII. The web subsystem
Configure the HTTP and HTTPS Connectors, set up an SSL connection, and configure an AJP Connector.

XIV. Introduction to clustering
Set up JBoss Enterprise Application Platform 6 in a cluster in both standalone and domain mode.

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically