

## **JBoss Administration**

### **Course Summary**

#### **Description**

This course will introduce the student to the JBoss Application Server. Students will learn how to install, configure and manage applications running on JBoss.

#### **Objectives**

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

- Download, install and configure JBoss
- Know how to manually start and stop JBoss
- Know how to register JBoss as a Windows service
- Understand the J2EE/JEE deployment hierarchy
- Deploy J2EE/JEE applications as WAR files
- Deploy J2EE/JEE applications via ANT
- Configure logging thresholds with log4j
- Diagnose errors in the log files
- Configure database connections with JNDI
- Integrate JBoss with an Apache web server
- Integrate JBoss with an IIS web server
- Configure SSL security
- Manage JBoss security roles

#### **Topics**

- JBoss Installation
- Manually Deploying Applications on JBoss
- Dynamically Deploying Applications on JBoss
- Database Connectivity
- Logging
- JBoss Security
- Monitoring JBoss
- JBoss Integration

#### **Prerequisites**

The students should have a general understanding of web technologies including HTTP, XML and J2EE.

#### **Duration**

Two days

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### **Course Outline**

#### **I. JBoss Installation**

- A. Installing JBoss
- B. Starting & Stopping JBoss
- C. Working with the JMX Console
- D. Advanced JBoss Configuration

#### **II. Manually Deploying Applications on JBoss**

- A. J2EE Overview
- B. Deploying & Testing Servlets
- C. Deploying & Testing Java Server Pages
- D. Working with web.xml

#### **III. Dynamically Deploying Applications on JBoss**

- A. Installing Ant
- B. Deploying Applications with Ant
- C. Uninstalling Applications

#### **IV. Database Connectivity**

- A. Working with MySQL
- B. Choosing a JDBC Driver
- C. Database Connection Pooling with MySQL and JBoss

#### **V. Logging**

- A. Logging choices
- B. Working with log4j
- C. Choosing a Log Format
- D. Generating Log Reports
- E. HTTP Logs

#### **VI. JBoss Security**

- A. Working with Security Domains
- B. Connecting to an LDAP Server
- C. Working with SSL

#### **VII. Monitoring JBoss**

- A. Monitoring Applications
- B. Creating a JBoss Monitor
- C. Working with Email Alerts
- D. Command line management

#### **VIII. JBoss Integration**

- A. Integrating JBoss with Apache
- B. Integrating JBoss with IIS