

# **Red Hat JBoss Application Administration I (AD248)**

**Duration: 40 Hours (5 Days)**

## **Course Overview**

The Red Hat JBoss Application Administration I (AD248) course is designed for system administrators who are responsible for deploying and managing applications on Red Hat JBoss Enterprise Application Platform (JBoss EAP). Through a series of modules with hands-on lessons, learners will develop skills in installing and configuring JBoss EAP, managing applications, configuring resources such as datasources and messaging, and maintaining the overall health and performance of the platform. The course covers both Standalone and managed domain modes and provides an understanding of Clustering for high availability and scalability. Additionally, learners will explore Security configurations, JVM tuning, and new features in JBoss EAP 7. By the end of the course, participants will be prepared for real-world administration tasks and can apply these skills to ensure efficient and secure JBoss EAP environments, making them valuable assets to their organizations. The comprehensive review in Module 15 helps reinforce the administration tasks covered throughout the course.

## **Audience Profile**

The Red Hat JBoss Application Administration I (AD248) course is designed for system administrators and developers managing JBoss EAP 7.

- **System Administrators:** Learn how to install, configure, and manage JBoss EAP 7.
- **Middleware Administrators:** Responsible for maintaining the performance and reliability of JBoss servers.
- **Application Server Administrators:** Upgrade their skills to JBoss EAP 7 for enhanced administration.
- **DevOps Professionals:** Gain expertise in the deployment and administration of JBoss EAP.
- **IT Professionals:** Preparing for the Red Hat Certified Specialist in Enterprise Application Server Administration certification.
- **Developers:** Focused on DevOps or middleware and looking to understand the environment where their applications run.
- **Application Administrators:** Manage and deploy Java EE applications on JBoss EAP.
- **Enterprise Architects:** Learn to configure and manage JBoss EAP in various enterprise environments.
- **Technical Support Engineers:** Provide in-house support and troubleshooting for JBoss EAP.
- **System Engineers:** Integrate and configure JBoss EAP in complex IT setups.
- **Professionals with Legacy Systems:** Looking to migrate to JBoss EAP 7 for modernized infrastructure.

## **Course Syllabus**

- Red Hat JBoss Enterprise Application Platform: Architecture and Features
- Describe the architecture and features of the Red Hat JBoss
- Enterprise Application Platform
- Configuring JBoss EAP as a Standalone Server
- Configure a standalone server instance of JBoss EAP
- Scripting Configuration and Deploying Applications
- Configure JBoss EAP using the Command Line Interface tool and deploy Jakarta EE applications
- Configuring JBoss EAP as a Managed Domain
- Configure JBoss EAP as a Managed Domain

- Configuring Servers in a Managed Domain
- Configure servers and server groups in a managed domain
- Configuring Data Sources
- Configure JDBC database drivers and data sources
- Configuring the Logging Subsystem
- Configure log handlers and loggers
- Configuring the Messaging Subsystem
- Interpret the messaging architecture and configure various messaging resources
- Securing JBoss EAP
- Apply security configurations to enhance the security of applications deployed on JBoss EAP
- Configuring the Java Virtual Machine
- Configure the JVM settings in a standalone server and in a managed domain
- Configuring the Web Subsystem
- Configure connectors, servers, and other features of the web subsystem
- Deploying Clustered Applications
- Configure various subsystems to support the deployment of clustered applications