

Red Hat JBoss Application Administration

Course Duration: 40 Hours

Course code: JB248

1. Course Overview

Red Hat JBoss Application Administration I (JB248) equips system administrators and network professionals with skills to manage enterprise applications on JBoss EAP. It covers installation, configuration, resource deployment, logging, and security management. Learners explore clustering for high availability, JVM tuning, monitoring, and troubleshooting. The course also addresses backup, recovery, and new features in JBoss EAP 7 to ensure optimal server performance.

2. What you'll learn?

By the end of this course, learners will:

This course aims to empower participants with the skills and practical experience needed to install, configure, manage, and monitor Red Hat JBoss Enterprise Application Platform (EAP). Learners will explore essential topics such as application deployment, performance tuning, security configurations, and clustering for high availability. The training emphasizes hands-on labs and real-world scenarios to ensure participants gain confidence in managing JBoss environments effectively and securely.

3. Target Audience

- System administrators managing enterprise Java applications
 - Middleware administrators
 - DevOps engineers working with application servers
 - Application support professionals
 - IT professionals planning to deploy or manage JBoss EAP environments
- Individuals seeking Red Hat Certified Specialist in JBoss Administration credentials

4. Pre-Requisites

Participants should have:

- To make the most of this course, participants should have a foundational understanding of Linux system administration and basic networking principles. Prior exposure to enterprise application environments will further enhance their ability to grasp JBoss administration tasks quickly and effectively.
- Basic knowledge of Linux command-line tools and administration
- Familiarity with enterprise application deployment concepts
- Understanding of networking fundamentals (TCP/IP, firewalls, ports)
- Prior experience with Java-based applications (recommended but not mandatory)

5. Course content

Module 01 – Introduction to JBoss EAP and Red Hat Environment

- Overview of JBoss EAP Architecture and Components
- Understanding Standalone and Managed Domain Modes

- Installing and Configuring JBoss EAP

Module 02 – Core Server Management

- Managing JBoss EAP Services and Interfaces
- Configuring Server Profiles and Subsystems
- Deploying and Managing Applications

Module 03 – Resource Configuration

- Creating and Configuring Datasources
- Setting Up JMS Messaging Resources
- Implementing Logging Strategies

Module 04 – Security Management

- Configuring Role-Based Access Control (RBAC)
- Securing Management Interfaces and Applications
- Managing Users, Groups, and Authentication

Module 05 – Clustering and High Availability

- Introduction to Clustering in JBoss EAP
- Configuring Load Balancing and Failover
- Session Replication for High Availability

Module 06 – Performance Tuning and Monitoring

- JVM Tuning for Optimal Performance
- Monitoring Server Health and Metrics
- Troubleshooting Common Issues

Module 07 – Backup, Recovery, and New Features

- Implementing Backup and Restore Strategies
- Exploring New Features in JBoss EAP 7
- Best Practices for Ongoing Administration

