Red Hat JBoss Application Administration I Training

Duration: **5 Day**

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Overview

Install, configure, and administer Red Hat JBoss Enterprise Application Platform effectively.

The **{*training}** provides system administrators with the essential skills to **install, configure, and manage Red Hat® JBoss® Enterprise Application Platform (EAP) 7** for running Jakarta EE applications.
Through a combination of **hands-on labs and practical lessons**, you will learn to manage JBoss EAP in both standalone and domain modes, configure subsystems, secure deployments, and optimize performance for enterprise environments.

> *This course is based on Red Hat JBoss Enterprise Application Platform 7.4.*

Prerequisites

- Basic experience in **system administration** on Linux, UNIX, or Windows.
- A general understanding of **TCP/IP networking**.
- No prior Java or shell scripting experience is required.

Who Should Attend

This course is designed for:

- **System Administrators** who are new to Red Hat JBoss EAP or managing JBoss EAP 7.
- IT professionals seeking to **deploy and maintain enterprise Java applications** on JBoss EAP.

What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Install and run JBoss EAP in **standalone and domain modes**.
- Configure and manage **domain servers and server groups**.
- Deploy enterprise applications across environments.
- Configure **data sources** and **JDBC drivers**.
- Set up **Java Message Service (JMS)** and messaging resources.
- Manage the **logging subsystem** for application and server logs.

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- Configure the **web subsystem**, connectors, and server interfaces.
- Apply **application security configurations**.
- Tune and configure **JVM parameters** for optimal performance.
- Implement **clustering** for high availability and scalability.

Impact on the Organization

Organizations deploying **Red Hat JBoss Enterprise Application Platform** can:

- Simplify **application administration and deployment processes**.
- Reduce time to market for new applications.
- Increase **stability, scalability, and performance** of enterprise Java applications.
- Lower maintenance costs through standardized configuration practices.

This training empowers IT teams to effectively manage enterprise application environments and support organizational modernization initiatives.

Impact on the Individual

By completing this course, you will be able to:

- Install, configure, and manage JBoss EAP 7 in **standalone and domain modes**.
- Use the **CLI and web console** to administer applications.
- Configure essential subsystems, including data sources, messaging, logging, and web components.
- Apply **security and clustering configurations** for enterprise deployments.
- Tune the **JVM** and server performance for optimal results.

After training, you'll have the practical expertise to **deploy, secure, and maintain enterprise Java applications** using Red Hat JBoss EAP.

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Outline

1. Red Hat JBoss Enterprise Application Platform: Architecture and Features
Understand the architecture, key components, and features of JBoss EAP.

2. Configuring JBoss EAP as a Standalone Server
Install and configure JBoss EAP in standalone mode.

3. Scripting Configuration and Deploying Applications
Use the **EAP Command Line Interface (CLI)** to configure servers and deploy Jakarta EE applications.

4. Configuring JBoss EAP as a Managed Domain
Deploy and manage EAP in a **domain configuration** to support multiple server instances.

5. Configuring Servers in a Managed Domain
Configure server groups, profiles, and deployment management.

6. Configuring Data Sources
Install and configure **JDBC drivers and data sources** for database integration.

7. Configuring the Logging Subsystem
Set up and manage **log handlers, loggers, and formats** for better observability.

8. Configuring the Messaging Subsystem
Understand the **messaging architecture** and configure queues, topics, and connection factories.

9. Securing JBoss EAP
Implement **security realms, authentication, and access control** for your applications.

10. Configuring the Java Virtual Machine (JVM)
Optimize **JVM memory, garbage collection, and tuning parameters** for better performance.

11. Configuring the Web Subsystem
Configure connectors, virtual servers, and HTTP services.

12. Deploying Clustered Applications
Set up **clustering** to enable high availability and load balancing.