Introduction to Red Hat JBoss Enterprise Application Platform 8 (AD258) Training

Duration: **3 Day**

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Overview

Discover the new capabilities and management features introduced in**Red Hat JBoss Enterprise Application Platform (EAP) 8**, and learn the essential skills to deploy and administer enterprise-grade Java applications.

The **Introduction to Red Hat JBoss Enterprise Application Platform 8 (AD258)** course provides a practical foundation for system administrators and developers who manage or deploy Jakarta EE applications using Red Hat JBoss EAP. Through guided labs, participants explore how to install, secure, and migrate workloads, as well as how to deploy and manage EAP applications across hybrid cloud environments, including OpenShift.

> *This course is based on Red Hat JBoss® Enterprise Application Platform 8.0.*

Who Should Attend

This course is designed for:

- **System administrators** who deploy and manage Java application servers.
- **Jakarta EE developers** who build and maintain enterprise applications.
- **Automation architects, cloud administrators, and platform engineers** responsible for designing and automating Java infrastructure on-premises or in the cloud.

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What You Will Learn

- Install and manage Red Hat JBoss EAP 8 servers.
- Identify the main considerations for migrating existing environments to JBoss EAP 8.
- Use the **Migration Toolkit for Applications (MTA)** to assess, refactor, and modernize applications.
- Perform server migrations using the **JBoss EAP Server Migration Tool**.
- Explore the **Elytron security subsystem**, including authentication, authorization, and TLS configuration.
- Migrate legacy security frameworks to **Elytron** and implement **role-based access control (RBAC)**.
- Deploy and manage JBoss EAP workloads on **OpenShift** using Maven plug-ins and Helm charts.
- Optimize performance and enhance security by trimming EAP runtime features in OpenShift.
- Use the **JBoss EAP Operator** to automate deployment and monitoring.

Impact on the Organization

Organizations are increasingly migrating **Jakarta EE workloads** to cloud-native and hybrid infrastructures. With Red Hat JBoss EAP 8, enterprises can:

- Modernize and refactor applications for **containerized or virtualized platforms**.
- Strengthen **application security** with the Elytron subsystem.
- Deploy and scale Java workloads efficiently across **OpenShift hybrid cloud environments**.

This course provides the knowledge needed to plan migrations, implement secure configurations, and optimize performance — accelerating modernization while minimizing disruption.

Impact on the Individual

After completing this course, participants will be able to:

- Install, manage, and secure JBoss EAP 8 environments.
- Evaluate migration options and perform transitions using MTA and migration tools.
- Implement Elytron-based authentication, TLS, and RBAC.
- Deploy and manage EAP workloads in OpenShift using best practices.

Graduates of this course will be ready to support modern Java infrastructures across physical, virtual, and cloud environments.

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Outline

1. Installing and Managing Red Hat JBoss EAP 8
Install and configure a JBoss EAP 8 instance, and explore its key management capabilities.

2. Migration Planning and Best Practices
Identify major considerations when migrating applications and infrastructure to EAP 8.

3. Using the Migration Toolkit for Applications (MTA)
Analyze applications, estimate migration effort, and refactor packages using MTA.

4. Server Migration Tool
Migrate configurations from previous JBoss EAP releases with the Server Migration Tool.

5. Introduction to Elytron Security
Understand the JBoss EAP 8 security architecture and implement Elytron-based security management.

6. Migrating Legacy Security to Elytron
Transition from legacy security subsystems to Elytron using command-line utilities.

7. TLS and RBAC Configuration
Secure application and management interfaces using TLS and role-based authorization.

8. Deploying JBoss EAP on OpenShift
Deploy enterprise applications to hybrid and cloud environments via Maven or Helm.

9. Optimizing and Securing EAP for OpenShift
Customize and harden JBoss EAP runtimes using Helm charts and environment variables.

10. Managing EAP Deployments with the Operator
Install and configure the JBoss EAP Operator to automate lifecycle operations and monitoring.