

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

ID AD258 Price 1,870.— €(excl. tax) Duration 2 days

Course Overview

An introduction of the features provided by Red Hat JBoss EAP 8, and how to perform basic management of EAP 8 services.

Introduction to Red Hat JBoss Enterprise Application Platform 8 introduces you to the features of Red Hat JBoss Enterprise Application Platform (JBoss EAP) 8. Through hands-on labs, learn some essential, real-world tasks that a system administrator needs to know to effectively deploy and manage applications on JBoss EAP.

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

Who should attend

- System administrators that manage Java application servers
- Developers that create JakartaEE applications
- Automation architects, cloud administrators, and platform engineers that design and automatize the organization's Java applications infrastructure

Prerequisites

- Basic experience in Linux is required, or completion of the Red Hat System Administration I (RH124) course
- Basic programming concepts related to Java, and JakartaEE/JavaEE specifications is required, or completion of the [Red Hat Application Development I: Programming in Java EE \(AD183\)](#) course
- Basic JBoss EAP administration experience is required
- Basic Red Hat OpenShift or Kubernetes experience is required, or completion of the *Introduction to OpenShift Applications (DO101)* course

Course Objectives

Impact on the Organization

Organizations are striving to migrate their JakartaEE applications to different infrastructures, such as public clouds, or containerized environments. In the cloud era, Java is still one of the most used programming languages in the enterprise, and JBoss EAP has evolved to enable organizations to run Java workloads everywhere, being on a virtualized infrastructure, a bare metal installation, a private cloud, a public cloud, or a containerized environment. This course provides an introduction to the latest Red Hat JBoss EAP features, and presents the options to evolve JakartaEE infrastructures by migrating, refactoring, or redeploying the existing applications to different platforms.

AD258 helps an organization to decide how to evolve its JakartaEE infrastructure by focusing in three areas:

- The migration and migration tools to move the applications and the application servers to JBoss EAP 8
- The new Elytron security subsystem
- Use JBoss EAP on hybrid clouds, with focus on Red Hat OpenShift

Impact on the Individual

As a result of attending this course, you should be able to describe the options for installing and managing JBoss EAP environments on different platforms. You learn to analyze the options to migrate to JBoss EAP 8, and to perform the migration by using the migration tools. You will be able to protect deployed applications and the application server by using Elytron, and to deploy and manage Red Hat JBoss EAP 8 in Red Hat OpenShift.

Course Content

- Installing and Managing Red Hat JBoss Enterprise Application Platform 8
- Migration to JBoss EAP: Identifying the Main Points in a Migration to JBoss EAP 8
- Migration to JBoss EAP: Migration Toolkit for Applications

(MTA)

- Migration to JBoss EAP: Server Migration Tool
- JBoss EAP Security: Introduction to Elytron and the JBoss EAP Security
- JBoss EAP Security: Migration to Elytron
- JBoss EAP Security: TLS in Management and HTTP interfaces
- JBoss EAP Security: RBAC in management and HTTP interfaces
- JBoss EAP on OpenShift: Deploy JBoss EAP Applications on Hybrid Clouds
- JBoss EAP on OpenShift: Configuring and Trimming JBoss EAP for Applications on OpenShift
- JBoss EAP on OpenShift: The JBoss EAP Operator

Detailed Course Outline

Installing and Managing Red Hat JBoss Enterprise Application Platform 8

Install and manage a Red Hat JBoss Enterprise Application Platform server, and explore a key set of the latest features that it provides

Migration to JBoss EAP: Identifying the Main Points in a Migration to JBoss EAP 8

Describe the main issues to consider in a migration to JBoss EAP 8

Migration to JBoss EAP: Migration Toolkit for Applications (MTA)

Analyze applications, measure migration efforts, and refactor Java package names by using the Migration Toolkit for Applications (MTA)

Migration to JBoss EAP: Server Migration Tool

Migrate server configurations from previous JBoss EAP versions by using the JBoss EAP Server Migration Tool

JBoss EAP Security: Introduction to Elytron and the JBoss EAP Security

Describe the JBoss EAP security architecture, and learn to use Elytron tools

JBoss EAP Security: Migration to Elytron

Identify legacy security components that need to migrate to Elytron, and use the Elytron CLI tool to help with the migration

JBoss EAP Security: TLS in Management and HTTP interfaces

Configure and manage TLS connections on JBoss EAP servers to applications and to the management interfaces

JBoss EAP Security: RBAC in management and HTTP interfaces

Configure role-based authorization for all the exposed interfaces on a JBoss EAP server

JBoss EAP on OpenShift: Deploy JBoss EAP Applications on Hybrid Clouds

Deploy JBoss EAP applications on hybrid clouds, including public clouds and container-based OpenShift environments, by using either the Maven plug-in or a Helm chart

JBoss EAP on OpenShift: Configuring and Trimming JBoss EAP for Applications on OpenShift

Configure JBoss EAP applications and trim the capabilities of their JBoss EAP runtimes on OpenShift in order to optimize performance and improve security, by using environment variables and Helm charts

JBoss EAP on OpenShift: The JBoss EAP Operator

Install the JBoss EAP operator on OpenShift, and use it to deploy and monitor JBoss EAP applications

About Fast Lane



Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.

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- ✓ Blended & Hybrid Learning
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