AD258

Introduction to Red Hat JBoss Enterprise Application Platform 8

Course Description

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.

Recommended training

- 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 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