

JBoss EAP 8 Administration

Deployment, clustering, messaging and management practice

FA-0681 · 3 days

DevOps, Cloud & Infrastructure · Mainframe & Enterprise Systems

Introduction

A three-day administration course for participants with existing system-administration and Java enterprise-platform experience. Work through selected JBoss EAP8 setup, deployment, management, clustering, messaging and security tasks in an arranged lab.

This is an independent course, not a claim of RedHat official-course affiliation or certification preparation. Cloud, clustering and tuning examples are scoped demonstrations; results do not establish production resilience or comprehensive hardening.

Learning outcomes

- Install or inspect a prepared EAP8 environment and deploy a compatible application.
- Use the management CLI for selected lifecycle and configuration tasks.
- Explain introductory cluster, recovery and performance considerations.
- Configure and inspect a prepared Artemis messaging example.
- Apply selected authentication, authorisation and TLS management controls and document remaining operational gaps.

Prerequisites

- System-administration experience and JavaEE/JakartaEE platform concepts.
- Prior introductory JBoss administration or equivalent practical knowledge.
- Access to the arranged EAP8/JDK/licensed environment and compatible sample applications.

Training outline

1. Day 1 — Environment, Deployment and Management

EAP8 Architecture and Setup

- EAP8 architecture and release-specific capabilities
- Installation and initial-configuration checks in the prepared lab

EAP8 targets JakartaEE10. Check javax-to-jakarta application compatibility and the supported JDK/OS matrix for the specific installation.

Application Deployment and Lifecycle

- Deploy a prepared application and compare production/cloud deployment considerations
- Application lifecycle management using JBoss EAP CLI

Use a prepared compatible application and a controlled lab, distinguishing a working deployment from a validated production rollout.

2. Day 2 — Clustering and Messaging

Cluster Concepts and Performance

- Cluster setup, redundancy and failure scenarios in a prepared environment
- Selected monitoring and performance-tuning examples

Compare topology and recovery behaviour; measure a selected workload rather than assume improved throughput.

ActiveMQArtemis

- Setup, configure, and manage messaging systems
- Clustering, persistence, and performance optimization of ActiveMQ Artemis

Inspect a bounded messaging configuration, persistence and delivery conditions; cluster messaging choices depend on the availableEAP/broker setup.

3. Day 3 — Automation, Security and Review

CLI Automation

- Selected management CLI scripts and error handling
- Automating common administration tasks

Access and Management Security

- JakartaEE application authentication and authorisation
- Selected hardening, TLS and protected management-interface configuration

Distinguish application access from management access, use the arranged Elytron security configuration and validate TLS settings; selected controls are not a complete security audit.

Integrated Review

- Recap key topics, practical tips, and administrative best practices
- Discussion on real-world scenarios and common challenges

Record configuration changes, rollback considerations, unresolved issues and further monitoring/recovery tests.