

Course 447: JBOSS Administration (3 days)

This JBOSS Administration course covers the details of setting up, configuring, and fine-tuning JBOSS application servers. Participants will learn the details of JBOSS architecture, steps involved in setting up the application server, basic deployments, production installation and deployment issues, tuning and monitoring, securing the services and clustering.

Course Overview

This course is intended for system administrators. It does not require Java or J2EE skills. Course content is taught through interactive discussion and hands-on lab work. As currently designed, 50% of this class is lab work.

The instructor for this class has practical real-world knowledge of JBOSS server issues including setup, installation, and deployment and has trained the IT teams of some of the world's largest companies.

Learning Objective

- Learn and practice an approach to set up, configure, and fine-tune JBOSS application servers
- Learn steps necessary to make sure problems can be easily found and resolved
- Hands on experience with troubleshooting tools
- Provide system administrators the appropriate skills to manage JBOSS applications servers

See next page for a detailed course outline...



Course Outline

Module 1 - JBOSS Architecture

- What are Application Servers
- How do Application Servers fit into enterprise infrastructure
- JBOSS Application Server overview
- Overview of J2EE, Servlets, and EJBs
- Overview of JBOSS Microkernel

Module 2 - Installing JBOSS

- Basic JBOSS installation
- Overview of various JBOSS distributions
- Java VM considerations
- OS and Hardware considerations
- Setting up a JBOSS environment
- Default JBOSS application directory structures

Module 3 - JBOSS Deployments

- Simple application deployments
- J2EE and JBOSS package types
- Deployment options
- Hot deployment, redeployment, undeployment
- Adding and removing JBOSS services
- JBOSS package configuration files

Module 4 - JBOSS Production Installation

- JBOSS installation issues for production environment
- Default physical socket ports and modifications
- Running JBOSS behind a firewall

Module 5 - JBOSS Production Deployments

- Preparing JBOSS for production usage
- Configuring production-grade databases with JBOSS
- JBOSS service deployments
- Deploying applications in JBOSS clusters
- Multiple instances of JBOSS on a single physical machine

Module 6 - JBOSS Tuning and Monitoring

- Overview of different middleware stack layers
- Tuning JBOSS for production use
- Tuning at the web tier
- Tuning at the database tier
- Tuning at the Java VM layer
- JBOSS monitoring tools



Module 7 - JBOSS and J2EE Security Issues

- Overview of J2EE and JBOSS security model
- Configuration files and security domains
- SSL certificates and tools

Module 8 - JBOSS Services Security

- Securing JBOSS server instance runtime
- Configuring and enabling HTTPS at the web tier
- Configuring authentication at the database tier
- Configuring messaging and EJB communication security

Module 9 - JBOSS Clustering

- Overview of JBOSS load-balancing
- Overview of fail-over functionality
- Configuring high-availability at different layers
- Overview of the cluster topologies with web server nodes
- Overview of mod_jk connectivity to JBOSS server instances

Please contact your ROI representative to discuss course tailoring!!!