

Java Training: JEE Programming for JBoss Professionals (JBoss, 4 jours)

Description

The course JEE Programming for JBoss Professionals (Java Training) focuses on Enterprise Java development using JBoss AS. The student is plugged right away into the architecture of Enterprise Java in conjunction with the JBoss Application Server. From this point forward, JEE modules, including JDBC Data source, Servlet, JSP, PageFlow and NetUI, EJB and JTA are covered and reinforced via hands-on exercises. The course wraps up with an overview of SOA.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

The JBoss Application Server

Java Platforms JEE Technologies

Multi-Tier Architectures

JEE Application Models

JEE Technology: Servlets and Page Flows

JEE Technology: Portals

JEE Technology: Enterprise Java Beans

JEE Technology: SOA and Web Services

JEE Technology: JMS and Message Driven Beans

JEE Technology: Integration and Business Processes

Putting it all Together: A Complete JEE Application

The JBoss Development Environment

What is JBoss?

Configuring JBoss for Enterprise Development

Starting and Stopping JBoss

Creating a JBoss Application: Code and Artefacts

Exploring the JBoss Directory Structure

Exploring the JBoss Configuration Files

Debugging JBoss Applications

Exploring JBoss Deployment

Configuring Datasources

The Need for Data Sources

Data Sources and JDBC Drivers

Preparing the Database Server

Creating the Data Source

About Multi Data Sources

Tuning the Data Source

JDBC Data Sources and JNDI

Creating a Data Source Client

Servlets

The Need for Sevlets

Web Applications, Web Services and Servlets

Configuring Servlets

- Running Servlets in JBoss
- Setting Initialization Parameters
- Dynamic Reloading of Servlets
- Servlet Initialization Parameters
- Servlets and Threads
- Creating Servlet Filters

JSP Pages

- JSP Architecture Servlets
- JSP Syntax Overview
- Configuring JavaServer Pages
- JSP Directives and Actions
- JavaServer Pages and JavaBeans
- State Management: Cookies, Sessions and Application
- Session Management

Page Flows

- The Need for MVC
- The Action, Form Bean and the Controller
- Understanding the Controller
- Creating Simple Actions
- Form Bean Validation and Validation Error Forward
- Using Catch Forwards
- Creating Complex Actions
- Using Message Bundles

Tag Libraries

- What is a Tag Library?
- Creating Custom Tag Libraries
- Working with the Standard NETUI Tags
- Working with the NETUI-DATA Tags
- Working with the NETUI-Template Tags
- Creating JDBC Controls
- Calling JDBC Controls
- Creating a Complete Workflow

Enterprise Java Beans

- EJB Overview: Working with JBoss
- Types of Enterprise Beans
- EJB Wrapper Interfaces and Annotations
- Context and Environment Objects
- About Home and Remote Interfaces
- The Enterprise Bean Class
- Deploying the EJB in WebLogic
- The Client Code

Session Beans

- What is a Session Bean?
- Session Bean Lifetime
- Session Bean Interface
- Session Bean Lifecycles
- Pool Settings for Stateless Session Beans
- Deploying and Running Session Beans

Entity Beans

- The Persistence Model

The Classes and the Interfaces

Container-Managed Fields

Deployment Settings

EB Query Language

Running the Product Application

Transactions

Container-Managed Transactions

Transaction Attributes

System vs. Application Exceptions

Rolling Back a Container-Managed Transaction

Summary of Transaction Options

Creating an Enterprise Application

EJB Controls

What is an EJB Control?

Creating EJB Controls

Calling EJB Controls

Integrating EJB Controls in Page Flows

Revisiting the Complete Workflow

Implementing Webservices

The Need for SOA

Web Service Technology Overview: WSDL, SOAP, UDDI, etc..

Implementing a Web Service using JBoss

Implementing a Web Service Client using JBoss

Creating and Using Service Controls

Exposing Session Beans using Web Services

Securing Web Services

Web Services and SOAP Attachments

Revisiting the Complete Workflow