

Moving to Java EE 5 and EJB3



Abstract

Version 5 of Java SE and Java EE has been a giant step to Java development. These versions introduce new concepts tools and features that changes the way we develop software using Java. One of the major changes in Java EE version 5 was a massive refactoring of the EJB specification to adapt lessons learned from the mistakes done in former versions.

This course will shortly introduce all changes in version 5 of Java EE and Java SE and delve into detailed learning of the EJB 3 specification.

Target Audience

Experienced Java EE developers who want to start using version 5.

Prerequisites

Experience in J2EE development.

Content:

What's new in Java SE 5? (4 hours):

- Autoboxing and Unboxing.
- Foreach Loop.
- Enums.
- Varargs.
- Generics.
- Static Imports.
- Annotations.
- The new `java.util.concurrent` package.

What's new in Java EE 5? (3 hours):

- Servlets 2.5
- JSP 2.1
- EJB 3



Java Persistence API.
What's new in JMS 1.1
Packaging and Deployment.

EJB3 new Concepts:(3 hours):

Inversion of Control.
Dependency Injection.
Configuration by Exception.
EJB3 Annotations.
AOP and Interceptors.
The new Client View.

EJB3 Bean Types (3 hours):

Stateless Session Beans.
Stateful Session Beans.
Message Driven Beans.

Java Persistence API (6 hours):

Object Relational Mapping.
Mapping configurations.
Embedded Objects.
Composite Keys.
Inheritance.
Relationships.
Working with the persistence manager.
Working with Query objects.
Caching and optimizations.

EJB3 Packaging (1 hours)

Duration: 3 days