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Apache Tomcat to Apache TomEE in 1 to n Steps

A guide on opening the doorway to Java EE in Apache TomEE from an Apache Tomcat perspective

Project - https://github.com/tomitribe/tomcat_to_tomee



Is Apache TomEE for Me?

Kathryn Janeway

Jonathan Archer

James T. Kirk

Jean-Luc Picard

Benjamin Sisko

You Yourchoice

The new guy who is going to die (The one in the red top!)

A Look at Apache Tomcat

A legacy application, maybe yours...

JSP

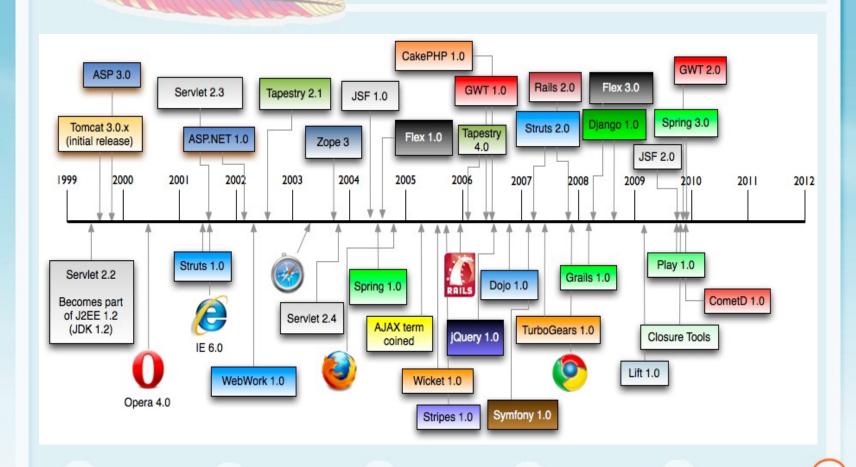
The scary stuff everyone said

Servlets

was the next big thing...

Apache Tomcat

Stolen from Roberto Cortez!



A Look at Apache TomEE

A legacy application, maybe yours... JPA CDI JSF JSP JMA EJB JTA Servlets **JSTL JAAS JACC** Servlets Apache Tomcat

Apache TomEE Maintaining 'Status quo' - EE6

Latin phrase meaning 'the existing state of affairs'

- JSR-245 JavaServer Pages 2.2
- JSR-344 JavaServer Faces 2.2
- JSR-341 Expression Language 3.0
- JSR-339 The Java API for RESTful Web Services 2.0
- JSR-340 Java Servlet 3.1
- **JSR-250 Common Annotations for** Java Platform 1.1
- JSR-318 Interceptors 1.1
- JSR 346 Contexts and Dependency **Injection for Java EE 1.1**
- JSR-345 Enterprise JavaBeans 3.2

- JSR-322 Java EE Connector **Architecture 1.7**
- JSR-338 Java Persistence 2.1
- JSR-907 Java Transaction API 1.2
- JSR-343 Java Message Service 2.0
- JSR-349 Bean Validation 1.1
- **EJB Entity Beans Support**
- **JAX-RPC 1.1 Support**
- **JAXR 1.0**
- **Java EE Application Deployment 1.2**

Apache TomEE Moving on, 'Tempora mutantur'

Latin phrase meaning 'times change'

- JSR-245 JavaServer Pages 2.2
- JSR-344 JavaServer Faces 2.2
- JSR-341 Expression Language 3.0
- JSR-339 The Java API for RESTful
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 Injection for Java EE 1.1
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- EJB Entity Beans Support
- JAX-RPC 1.1 Support
- JAXR 1.0
- Java EE Application Deployment 1.2

Focus on the Future – EE7, EE8

Roadmap EE7

- JSR 356 Java API for WebSockets
- JSR 353 Java API for JSON Processing (JSON-P)
- JSR 352 Batch Applications for the Java Platform
- JSR 236 Concurrency Utilities for Java EE
- JSR-299 CDI Portable Extensions

Roadmap EE8

- JCache (JSR-107)
- Java API for JSON Binding (JSR-TBD)
- Java Configuration (JSR-TBD)

Still Thinking "Is it for Me"?

- Jakarta Tomcat, aka Apache Tomcat is quite old (1999)
- It is basically just a Web Server and Servlet Container
- Tomcat extension is Ad-hoc at best
- Old is good! Apache Tomcat is a very stable platform
- Tomcat is 'the' platform upon which Apache TomEE sits
- Apache TomEE is not in competition with Apache Tomcat
- Apache TomEE is the opposite of Ad-hoc, it's certified





RebelLabs released an annual study with awards to recognize Geeky Excellence for 2014. Tomcat and TomEE were named as one of the 10 Geek Choice Awards winner. For a complete list of winners, check out the report "10 Kick-Ass Technologies Modern

Developers Love".

Read the Report

Apache TomEE, pronounced "Tommy", is an all-Apache Java EE 6 Web Profile certified stack where Apache Tomcat is top dog. Apache TomEE is assembled from a vanilla Apache Tomcat zip file. We start with Apache Tomcat, add our jars and zip up the rest. The result is Tomcat with added EE features -

TomEE

Download Apache TomEE Now »

and get started today!

TomEE+

Apache TomEE Plus has all the features of TomEE with the addition of JAX-RS (RESTfull Services), JAX-WS (Web Services), JMS (Java Message Service) and JCA (the Java Connector Architecture). The additional functionality is delivered via Apache CXF, Apache ActiveMQ and the Geronimo Connector library

OpenEJB

Apache OpenEJB is a standalone EJB 3.1 container. It can also be used for adding EJB 3.1 capabilities to Tomcat.

View details »

Examples

See the extensive list of examples being developed for Java EE 6. All are functional and tested before publishing. Some are documented. These also stream from the continuous integration system.

View details »

View details » No RPC or CORBA

Home

Documentation











See also the examples page for downloadable, executable and code-focused view of Java EE and TomEE. You can also find us on IRC freenode.org #openejb and #tomee

General Guides

Get started with Intellij, Debugging in Intellij Get started with Eclipse Get started with Netbeans Get started with Maven Eclipse WTP and TomEE logging Comparison: OpenEJB, TomEE, TomEE+ TomEE Directory structure TomEE Configuration TomEE Security Deploying in TomEE The 'tomee' webapp Install TomEE using the drop-in WAR TomEE Reference Card

Configuration

System Properties Deployments Containers and Resources JMS Resources and MDB Container Configuring DataSources Configuring JavaMail Security EJB Clients EJB over SSL JNDI Names Changing JMS implementations Changing JPA to Hibernate

Testing Techniques

Application discovery via the classpath **Embedded Configuration** Configuring DataSources in Tests Configuring PersistenceUnits in Tests Configuring Containers in Tests Configuring Logging in Tests Alternate Descriptors Unit Testing Transactions TestCase with TestBean inner-class TestCase Injection (@LocalClient)

Discovery and Failover

Overview Multicast Discovery (UDP) Multipulse Discovery (UDP) Multipoint Discovery (TCP) Multipoint Considerations Multipoint Recommendations Logging Events

OpenEJB Standalone Server

Understanding the Directory Layout Startup Deploy Tool Properties Tool

Spring

Spring and OpenEJB 3.0 Spring and OpenEJB 3.1 and later Spring, EJB and JPA example

Arquillian

Arquillian Primer - What you need to know Using the TomEE Arquillian adapters

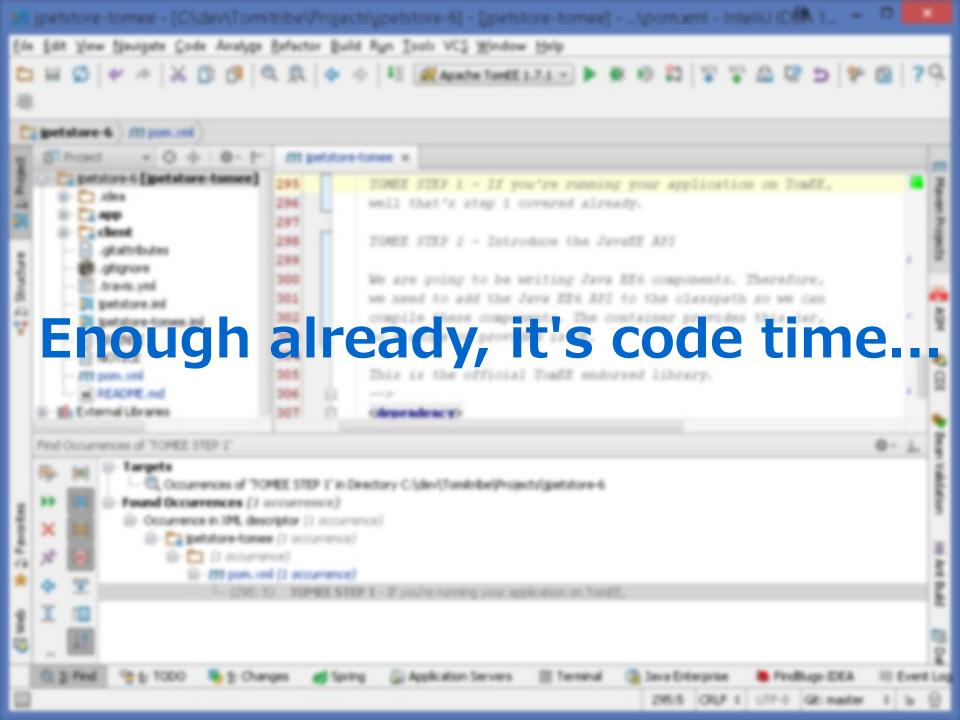
TomEE Maven Plugin

Getting started tomee-maven-plugin reference documentation TomEE simple webapp archetype documentation

Tips and Tricks

Global Concurrency Management WebLogic Lookup Jersey Client

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A Winning Choice





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Support Provider for Apache TomEE

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