

JavaOne 2010

**Resin: A Light-Footed Java EE 6
Web Profile Platform**

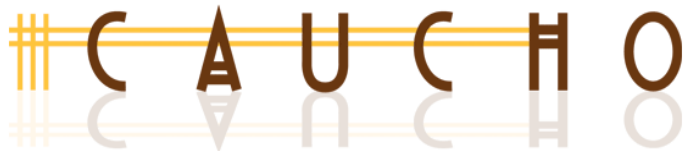


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The Resin Application Server

- One of the earliest successful Servlet containers
- Reputation for performance and small footprint
- Supports sites like Salesforce, CNET and Toronto Stock Exchange
- Support for EJB 3 and JPA in Resin 3.1 but not entire Java EE 5 stack
- Resin 4 targeted for Java EE 6 Web Profile certification
- Caucho only vendor focusing on Java EE 6 Web Profile



Java EE 6 Web Profile

Java EE

Web Profile



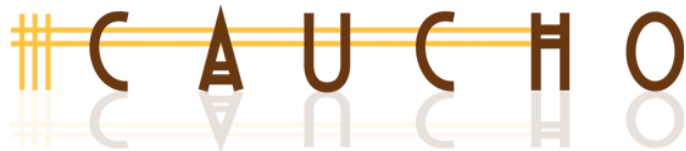
Resin Java EE 6 Implementation

- Caucho implementations for CDI (CanDI), Servlet 3 and EJB 3.1 Lite+
- Integrates reference implementation for JSF 2, JPA 2 and bean validation
- CanDI forms basis of Resin
- Use of annotations like @TransactionAttribute, @Schedule, @Asynchronous, @RolesAllowed, @RunAs, @Lock, @Startup and @Remote outside EJB
- High performance JTA transaction manager

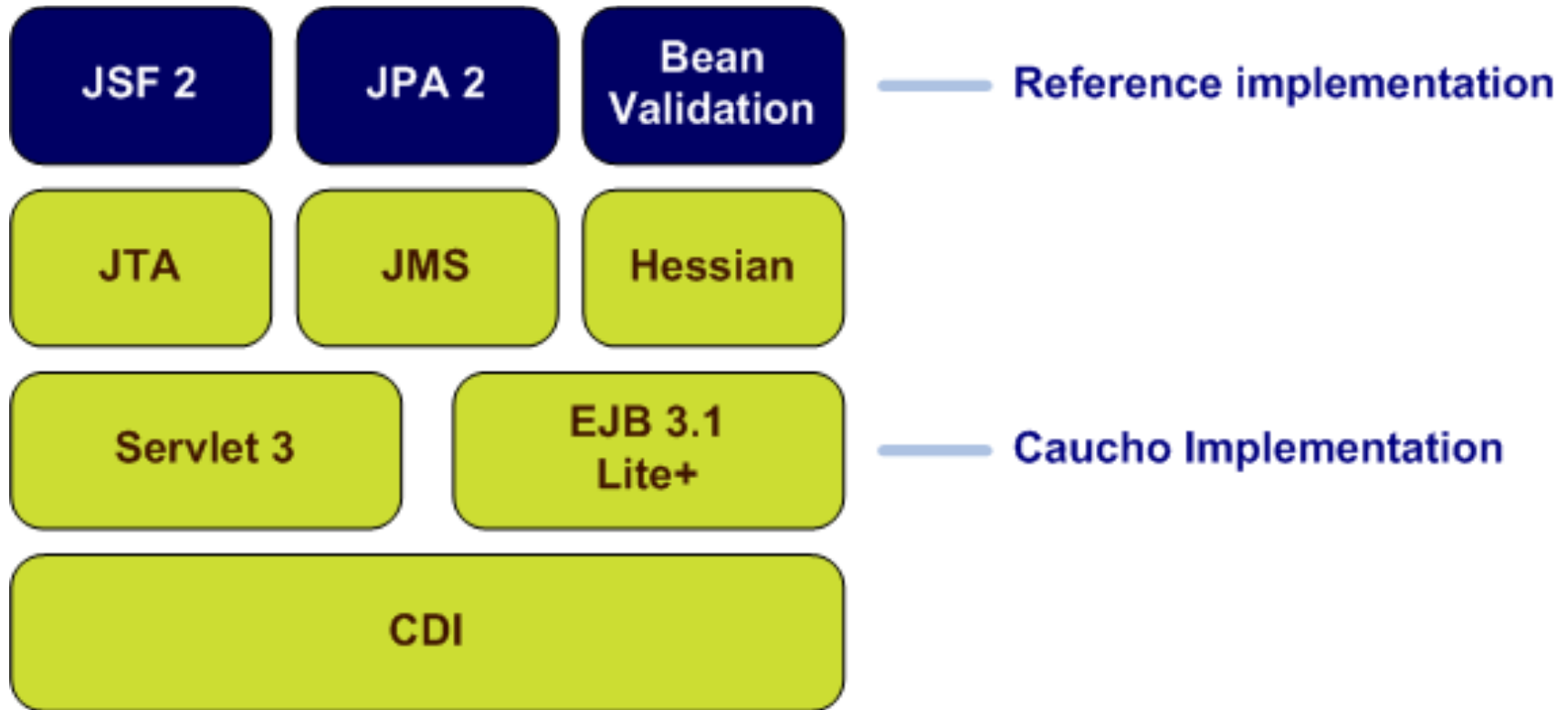


Resin Java EE 6 Implementation

- Scheduling, asynchronous processing, message driven beans, lightweight JMS
- Hessian remoting
- CDI portable extensions for JMS, JDBC, JavaMail, Struts 2, Wicket, iBATIS and Quartz
- Embedded container based unit testing support for JUnit and TestNG
- @TransactionScoped/@ThreadScoped custom scopes



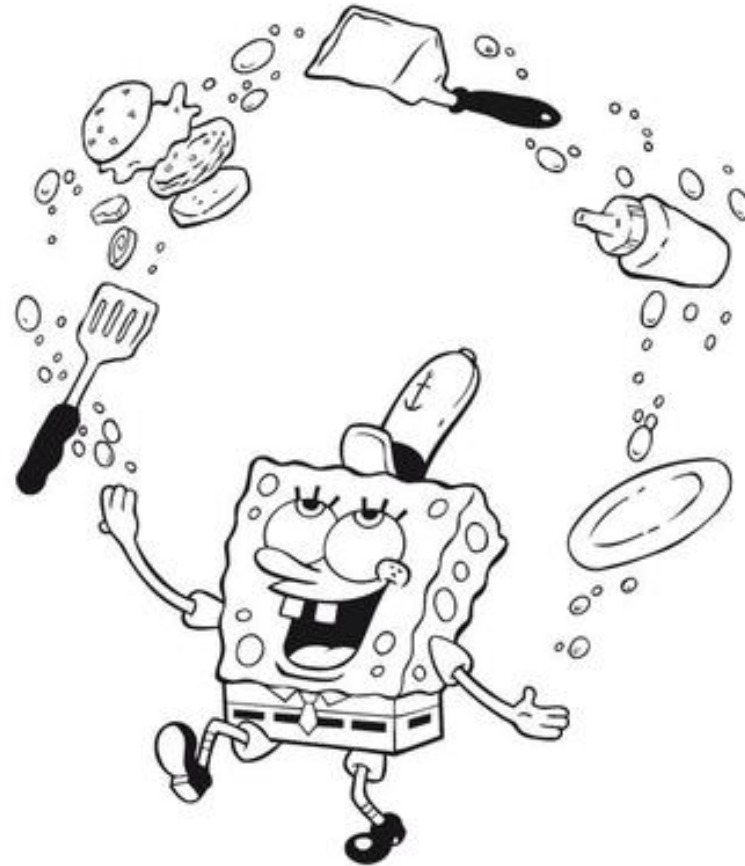
Resin Java EE 6 Implementation



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The Application Demo!

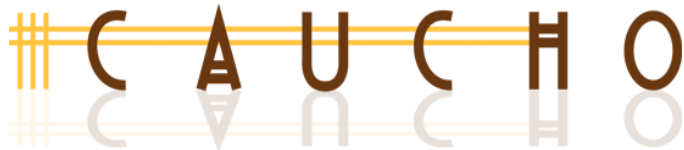


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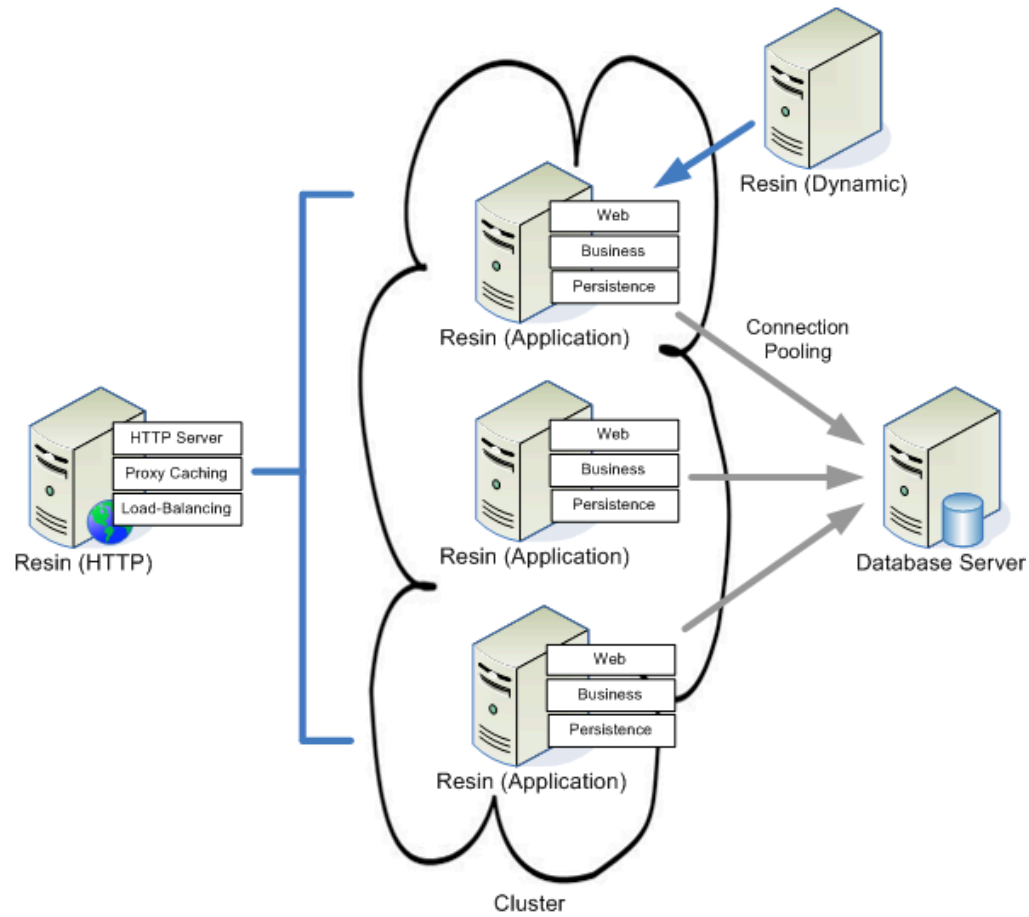


Server Features

- Resource/connection pooling
- HTTP server, load-balancing, clustering, caching
- Thread/process management, bandwidth throttling
- Security/built-in authentication providers
- Administrative console
- IDE integration
- Maven/Ant integration
- OpenSSL support

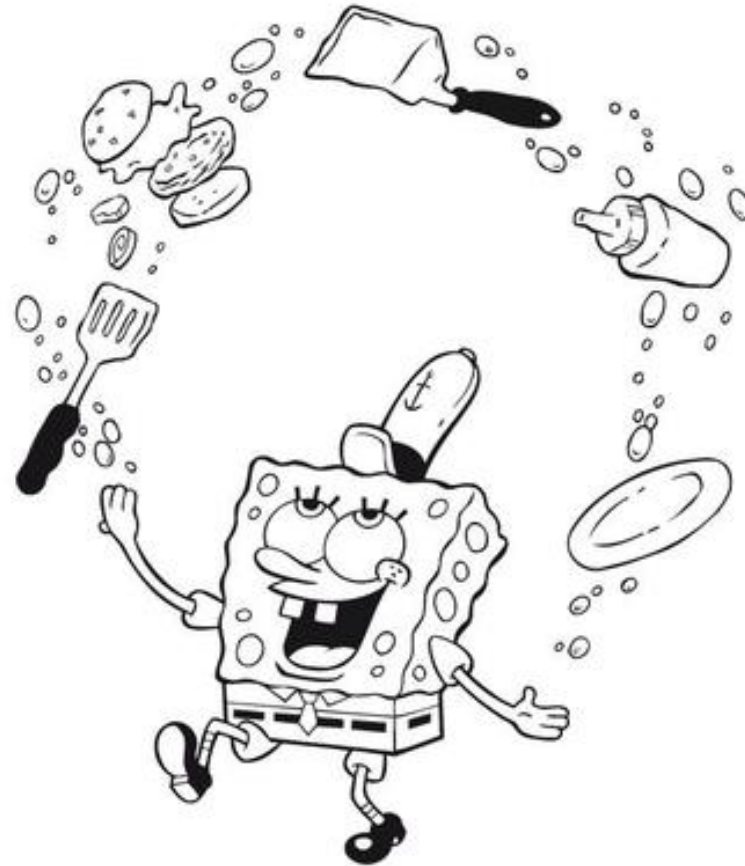


Resin Deployment



C A U C H O

The Server Demo!

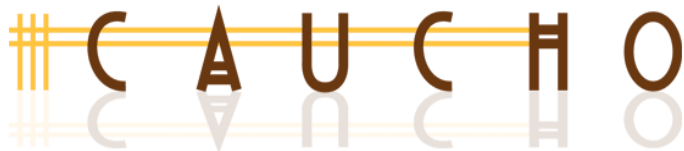


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Summary

- Resin aims to become lightweight Java EE 6 Web Profile application server of choice for Java community
- Use of annotations like @TransactionAttribute, @Schedule, @Lock, @RolesAllowed, @RunAs, @Startup, @Remote and @Asynchronous outside EJB
- Support for Hessian, JUnit 4, Struts 2, Wicket, iBATIS and Quartz
- Connection pooling, load-balancing, clustering, caching, security and administrative console



References

- Introducing Java EE 6
 - <http://java.sun.com/developer/technicalArticles/JavaEE/JavaEE6Overview.html>
- Resin
 - <http://www.caucho.com/projects/resin/>
- Download Resin
 - <http://www.caucho.com/download>
- Resin RefCard
 - <http://refcardz.dzone.com/refcardz/getting-started-caucho-resin>

