



Resin: Light-Footed Java EE

Reza Rahman

Resin EJB 3.1 Lite Container Developer

Expert Group Member, Java EE 6 and EJB 3.1

Author, EJB 3 in Action

reza@caucho.com



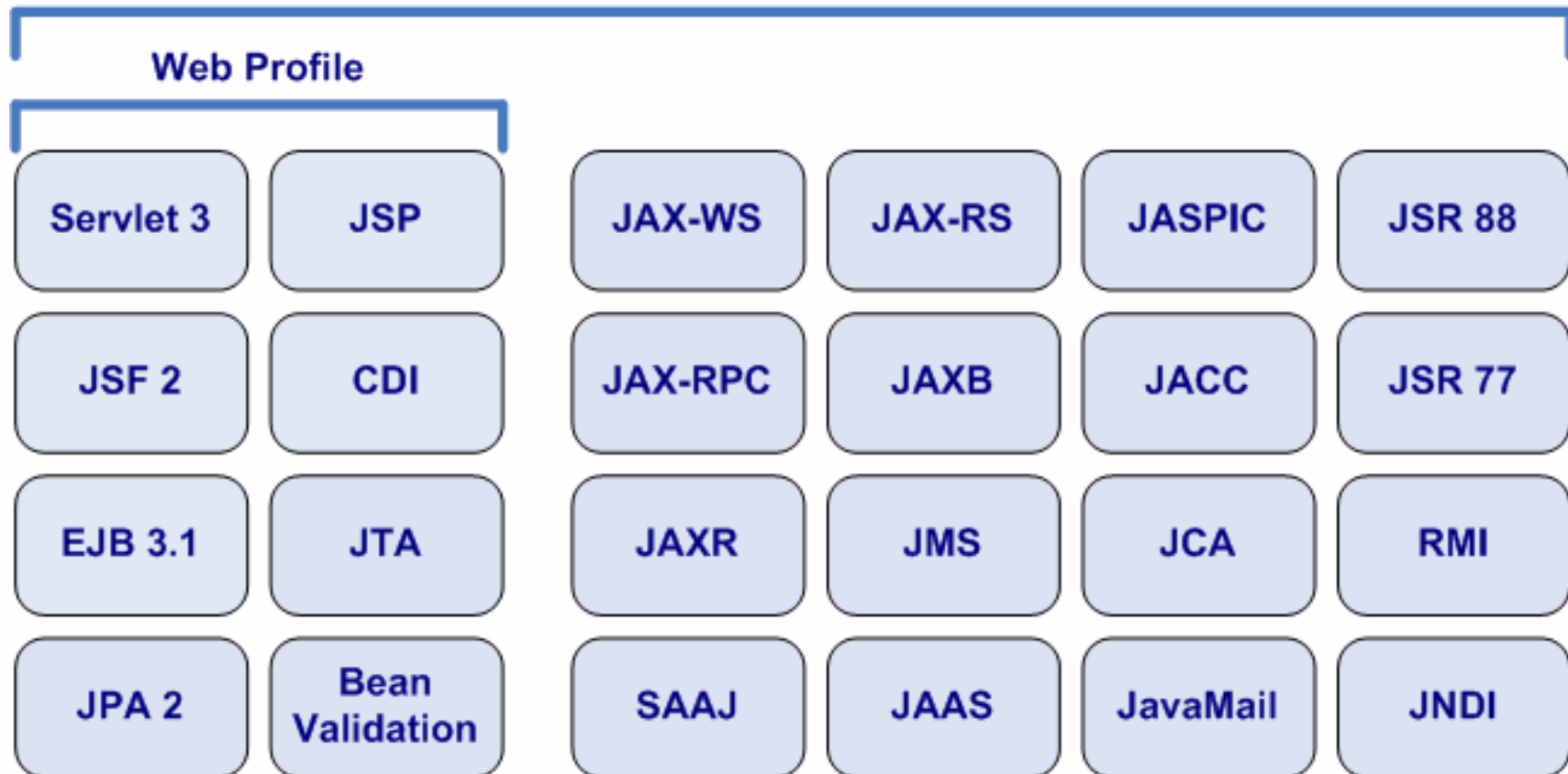
The Resin Application Server

- **One of the earliest successful Servlet containers**
- **Reputation for performance and small footprint**
- **Supports some of the most high traffic web sites in the world including Salesforce, CNET and the 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





Resin 4 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 for Resin itself**
- **CanDI enables the use of annotations like @TransactionAttribute, @Schedule, @Asynchronous, @RolesAllowed, @RunAs, @Lock, @Startup and @Remote outside EJB**

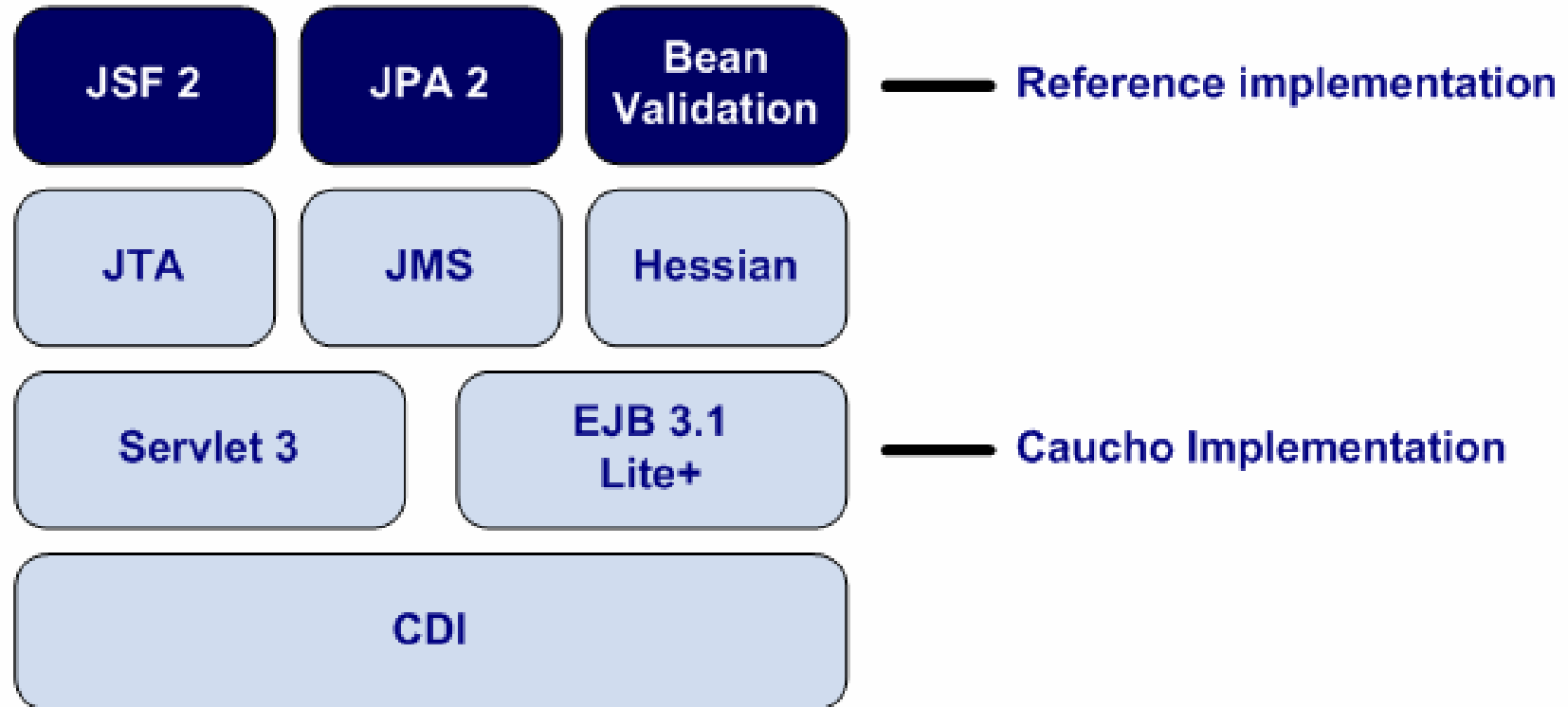


Resin 4 Implementation

- **High performance JTA compatible transaction manager**
- **Scheduling, asynchronous processing, message driven beans, lightweight JMS**
- **Hessian remoting**
- **Ease-of-use CDI portable extensions for JMS, JDBC and JavaMail**
- **CDI portable extensions for Struts 2, Wicket, iBATIS and Quartz**
- **Embedded container based unit testing support for JUnit**
- **@TransactionScoped/@ThreadScoped custom scopes**

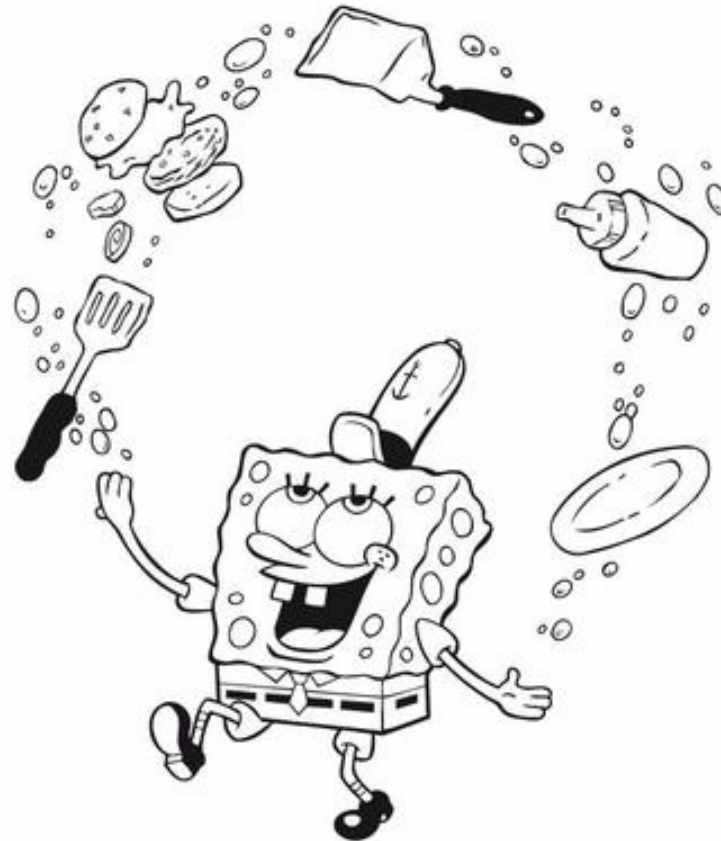


Resin 4 Implementation





The Application Demo!



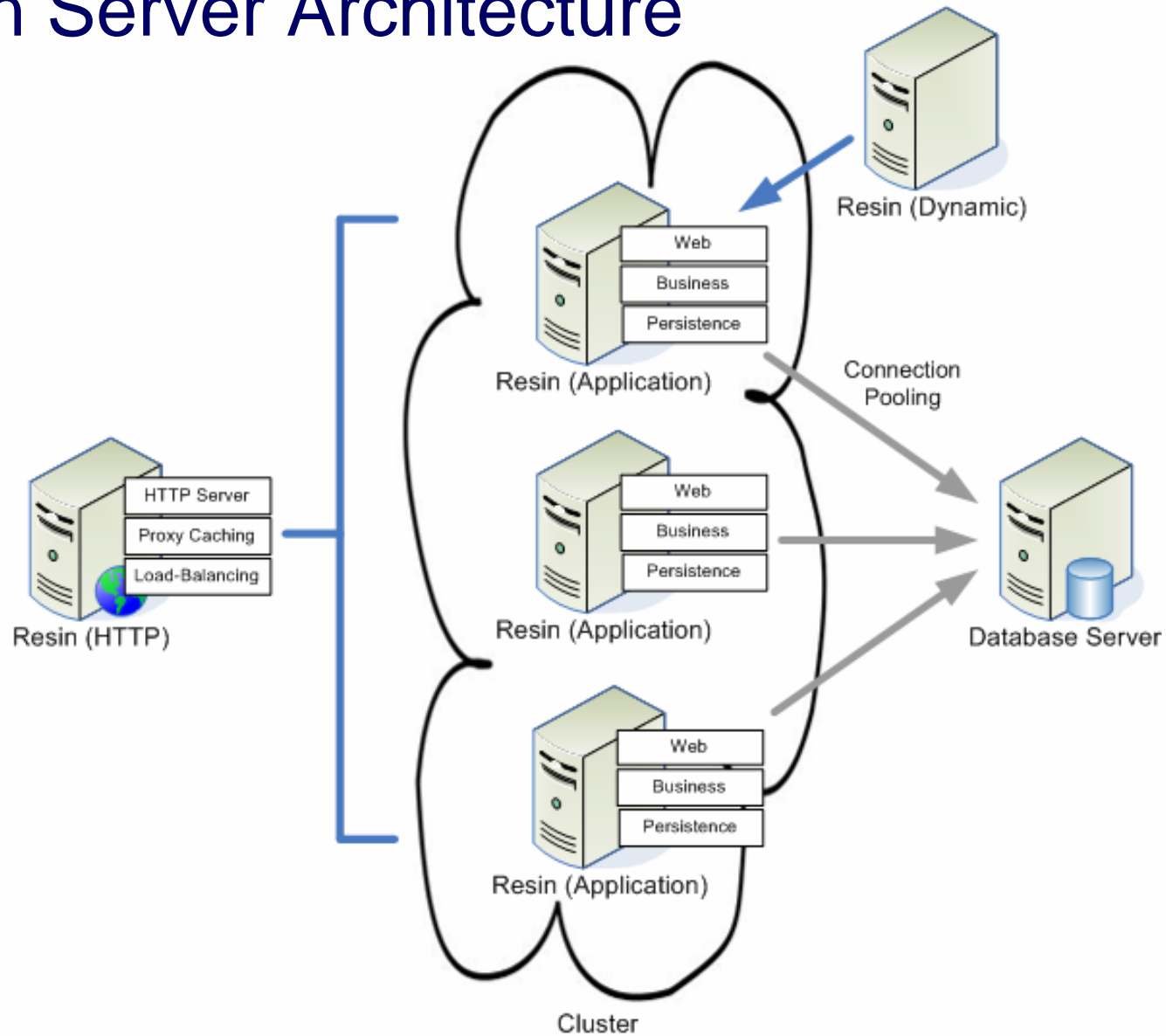


Server Features

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



Resin Server Architecture





The Server Demo!

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'JUST HOW LONG HAVE YOU BEEN
TAMING LIONS?'



Summary

- **Resin aims to become lightweight Java EE 6 Web Profile application server of choice for Java community**
- **Enables 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**
- **Questions, comments and feedback welcome!**



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 Java EE 6 Web Profile Whitepaper

- http://wiki.caucho.com/Resin_Java_EE_6_Web_Profile

● Resin RefCard

- <http://refcardz.dzone.com/refcardz/getting-started-caucho-resin>



Code Example Download

- http://blog.caucho.com/download/resin_demo_tssjs2010.zip