resin®

Open source application server

Grow your business with a fast, reliable and scalable application server

Build your site on a thriving and solid foundation that can rapidly adapt to your expanding business.

KEY BENEFITS

- Fast and reliable
- Scales to hundreds of servers
- Easy to install, configure, manage and monitor
- Open source
- Time tested and proven product of 10+ years
- Fast release cycle of 10 weeks
- Direct technical support from Caucho developers
- Cost-effective solution

Does your site's traffic spike by time of day or year?
If you have an annual sales event, you understand how a massive influx of requests can affect your website's performance. Make Resin a part of your plan to manage these planned periodic spikes and even sudden bursts of opportunities.

Is project management limiting your web site's potential?
Resin's capabilities help organize your team around services. Use industry standard interface contracts to encourage constructive communication within the development team as well as between the development and administration teams.

Are frequent content updates a part of your formula for success?
Caucho's open source application server combined with expert technical support from Caucho developers gives you the flexibility and structure to rapidly create a site that is responsive, fast, and will captivate your audience. Build your site on a thriving and solid foundation with room to expand for your business.

Why should Resin be your application server?

HIGH PERFORMANCE APPLICATION SERVER

The Resin Application server provides Servlets, JSP, JSF, JSTL, EJB Lite, transaction management, messaging, remote services, distributed sessions, SSL, a complete logging solution, PHP, a fast and fully capable HTTP server, and load balancing.

SCALABILITY

The Resin 4.0 Cloud infrastructure provides a dynamic and reliable method for scaling up or down by adding or removing virtual servers to match production load levels. Whether you have a single server or hundreds of servers, the clustering and replication architecture scale seamlessly.

EASE OF DEPLOYMENT

Resin offers easy configuration setup and deployment for web applications. Its fully integrated framework and management tools facilitate cloud computing by requiring only a single step to deploy and upgrade applications to numerous machines in a transactional fashion.

EASE OF ADMINISTRATION

Resin's simplified configuration structure makes it easy to get a new or upgraded site up and running. With native support for virtualized and dynamic environments, Resin allows administrators to perform maintenance on faulty machines while the deployment remains live.

OPEN SOURCE

Resin is an open source application server supported by a vibrant community as well as Caucho's own engineering staff. Resin is one of the oldest and most successful open source Java application servers in the industry with a large user base.

VERSIONED DEPLOYMENT

Resin supports running multiple versions of the same application within the same server so that upgrading requires zero downtime for active sites. By directing users with existing sessions to older versions and new users to new versions, Resin makes the upgrade process transparent to both users.

CLOUD COMPUTING

Cloud computing offers the ability to scale a web application deployment to fit the needs of users at any given time. With built-in support for both internal and external virtualized environments, Resin makes it possible for even existing applications to take advantage of recent advances in elastic infrastructure.

TECHNICAL SUPPORT BY CAUCHO DEVELOPERS

Caucho offers focused and quality technical support provided by our developers who write the code. Fast and expert support reduces wait time and increases productivity for system administrators and developers.

KEY FEATURES

- Java EE Web Profile

- Enterprise Clustering for Cloud Environments

- Support for Comet and massive keepalives (up to 25k simultaneous connections)

- Consolidated container for both Java and PHP applications using Quercus

- BAM lightweight and high speed messaging communication

- Seamless integration with most popular frameworks including Spring, Terracotta, Mule and others

- Transaction logging and application management tools

- Developer features:
  - Automatic class compilation
  - JUnit/Ant/Maven support
  - Live application profiling
  - Heap analysis

resin® Triad Cloud
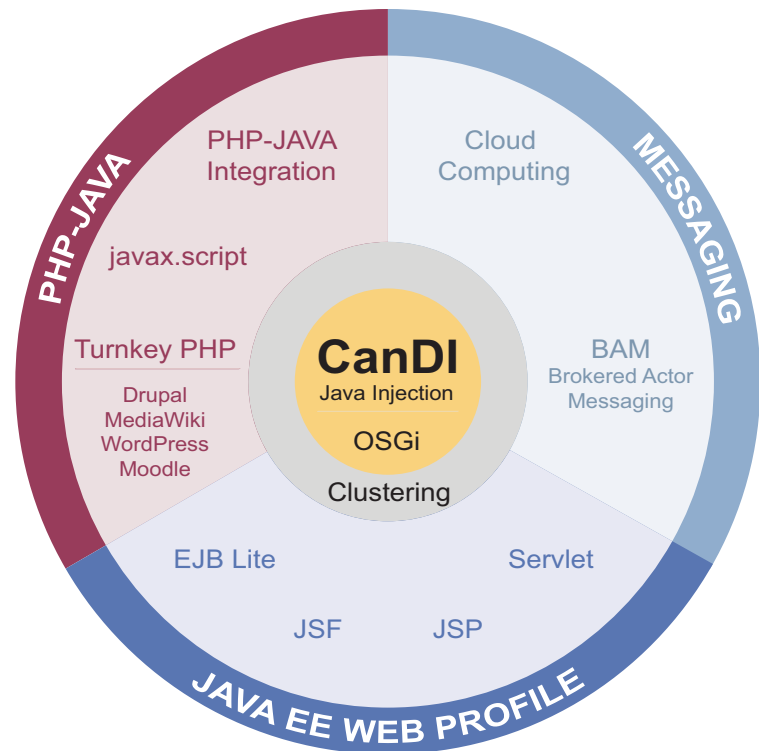
What is Resin 4.0 Core Framework?

SCALABLE AND COST-EFFECTIVE

Dave Moellenhoff
CTO / Salesforce

" Salesforce has relied on Resin to run our market-leading CRM services for years. After evaluating competing products, we found Resin to be the most reliable, scalable and cost-effective solution. "

resin® application server

Resin is a complete application server with a light weight footprint. Its easy configuration and installation process, along with a straight forward maintenance console, is a time saving and integral part of any organization looking to increase revenue with a high performing open source application server. Resin is an architecture for reliability, availability, scalability and performance.

Diagram labels:

- PHP-JAVA
  - PHP-JAVA Integration
  - javax.script
  - Turnkey PHP
  - Drupal, MediaWiki, WordPress, Moodle
- MESSAGING
  - Cloud Computing
  - BAM Brokered Actor Messaging
- JAVA EE WEB PROFILE
  - EJB Lite
  - Servlet
  - JSF
  - JSP
- CanDI (Java Injection), OSGi, Clustering

Java CanDI

Java Contexts and Dependency Injection. Organize development teams and applications with service-oriented design using CanDI and OSGi standards.

Java EE Web Profile

Enhance user experience and draw more traffic to your website with a fast, easy to maintain and highly responsive site backed by Java standards.

PHP-JAVA

Supplement a business-oriented Java framework with light, agile PHP code. Quercus is a fast and open-source PHP implementation written in Java that offers full PHP compatibility and easy Java integration.

Messaging/Cloud

Get ready for the next generation of interactive & cloud computing technology. BAM's lightweight messaging design is ideal for for chat, games, mobile phone and web applications requiring high-speed communications.

Industry Leading ISV Since 1998
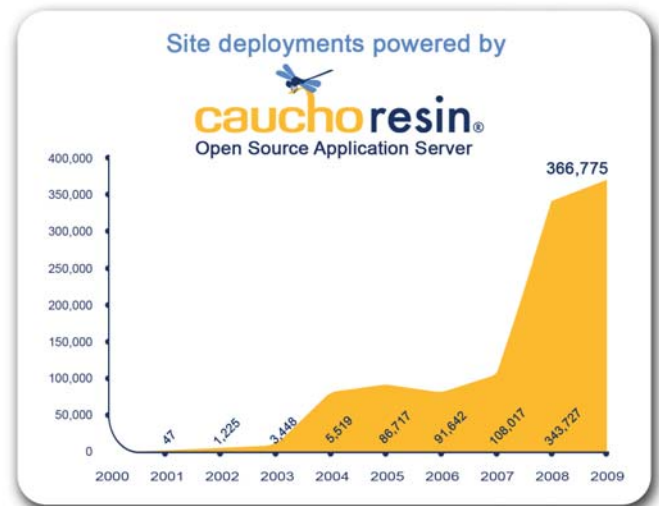
About Caucho Technology

Caucho Technology is an industry leading open source Java ISV with more than ten years of proven market success. Caucho's growing user base stems from a combination of performance, affordable pricing, reliability under heavy load and a commitment to technical support provided by Caucho engineers. We offer sales, training, professional services and reseller support to customers worldwide. Caucho is a Sun Microsystems Java EE Licensee whose products include Resin application server, Quercus Java-PHP performance solutions and Java Contexts and Dependency Injection.

Resin Application Server

Resin architecture features high performance, scalability and rigorous reliability that is expected from consumers including CNet, Salesforce and the Toronto Stock Exchange. Resin Professional and its core components are widely deployed in government, commercial and education web sites. Implementation includes Federal emergency programs, high traffic travel online services, banking, mobile applications and online gaming. With over 366,000 deployed hosts worldwide, Resin is easy on the budget and goes well beyond industry performance expectations.

1998:   Founding of Caucho Technology, Inc.
1999:   Resin 1.0 released
2000:   Salesforce deploys on Resin
2001:   Caucho & NTT Data Intramart establish partnership
2001:   AltaVista search deploys on Resin
2002:   CNet deploys on Resin
2003:   e-gatematrix deploys on Resin
2004:   Hessian 1.0 specification released
2005:   Caucho becomes a Sun Mircrosystems J2EE licensee
2005:   Hessian binary web services protocol released
2006:   Japan's largest online gaming portal deploys on Resin
2006:   Quercus released: PHP-Java implementation
2007:   Resin 3.1 released: JSF, Comet support & versioning
2007:   WebBeans JSR-299 draft integrated with Resin
2008:   Resin 3.2 released: scalability & administration features
2008:   Caucho introduces OSGi and Cloud
2009:   Resin 4.0 release: CanDI, Cloud, PHP-JAVA compilation

Netcraft Server Survey Report

Site deployments powered by **cauchoresin** Open Source Application Server

STABILITY, RELIABILITY

Brandon Cruz / President and CTO / Norvax

"After using almost every available application server on the market, Resin's stability, reliability, and advanced load balancing make it the obvious choice for us. We selected Resin because of the demands that our high-visibility web site puts on server performance."

FIRST-CLASS SUPPORT

Carl Whalley / SW Dev. Manager / OTAMate Technology

"We have been using Resin for over seven years now for various telecoms projects in a notoriously demanding environment. Resin has consistently provided us with the speed, resilience and flexibility we need to meet these goals, not to mention the first-class support provided by Caucho"

BEST OF BOTH WORLDS (JAVA-PHP)

David Berry / CTO / Live Process

"Resin consistently maintains the highest level of security when compared to other J2EE application servers."

5 TIMES FASTER THAN STANDARD PHP

Paul T. Fisher / Manager of Technology / Wired.com, CondéNet

"Quercus seems to be around 5 times faster than standard PHP. Quercus also allows us to use JDBC datasources, and DB pooling, which adds efficiency to the data layer."