

Kyobobooks Leverages Resin Pro to Emerge as Market Leader in Ebook Delivery

Developers Take Advantage of the Powerful Features of Resin Pro
Including Distributed Cache, Monitoring and Session Clustering
to Serve Over 160,000 Daily Customers

“We needed the session clustering function due to expansion of our services and servers, so with the proposal of Xest Information Technology, we successfully upgraded from Resin GPL to Pro and added high performance and convenience with precise and accurate support. Our developers are now able to concentrate on application development and will continue to adopt Resin Pro into our applications.”

-Kyobobooks IT Team Manager, Su-min, Oh

Solution

Upgrade Resin GPL to Resin Pro

Industry

Publishing and distribution

Product

Resin Professional WEB/WAS

Country

South Korea

Engineering Challenge

Kyobobooks is a leading e-commerce company that manages 35 bookstores in the major cities of Korea, specializing in the production, distribution and sale of published books.

Over the past fifteen years, the landscape of book purchasing has shifted dramatically. As the number of readers purchasing books through web portals increased tenfold, readers quickly began to outpace the underlying infrastructure of the Kyobobooks application. To meet the demands of this growing online market, Kyobobooks engineers were forced to examine their underlying infrastructure which included Jeus (a Korean application server) and Oracle WebLogic. As the 'used marketplace' and 'distribution management' web services saw increases in traffic volume, it became too expensive to expand the number of servers using Jeus and WebLogic.

After analyzing their application code dependencies, developers found that new servers could be easily deployed to Caucho's Resin GPL. This allowed Kyobobooks to expand their deployment and keep costs down to just the cost of hardware alone. The lightweight Resin GPL framework hosted these web services for about three years, cutting year-year hardware costs and software licensing by 70%.

As Kyobobooks business grew, managing server expansion and maintaining user sessions became critical. Developers chose to deploy the entire Kyobobooks platform on Resin Pro to avoid system crashes and interruption of service. Resin Pro provided a more robust and scalable system for enterprise deployments so that developers could focus their attention on the application itself, rather than on infrastructure.

Solution

Kyobobooks recruited Xest Information Technology, Resin experts in the Korean market for over fifteen years, to migrate their 60-server deployment to Resin Pro. Xest provided dedicated engineers work with Kyobobooks in expanding their operations.

Kyobobooks successfully deployed features of Resin Pro that increased performance and eliminated the need for system restarts.

Resin Pro features deployed included:

Distributed Cache	for reduced database load & reducing bottlenecks in the application
Native Servlet Module	for faster request processing & web page navigation
Session Clustering	for triple data replication & the ability to take live servers out of production for maintenance without impacting end users
Elastic Servers	to autoscale & load balance requests during high traffic volumes
JAMM (Java Application Monitoring and Management)	for identifying past and potential issues & fine-tuning application performance

Resin Pro's monitoring feature, JAMM, is used by Kyobobooks for system maintenance. JAMM's automated health checks allow developers to check Resin's status in real time. Using this feature, developers are able to analyze daily PDF reports detailing access logs, number of users, and discovering bottlenecks in their applications that were the cause of slow responses.

As a result of using the Resin Pro JAMM feature, Kyobobooks did not have to rely on third party tools for monitoring and was able to reduce costs and engineering time.

“Our development process has been simplified using Resin Pro for tuning, crash analysis, recovery, configuration, composition consulting and monthly status reporting,”

-Kyobobooks IT Team Manager, Su-min, Oh

Success Story – Kyobo Mobile Bookstore Expands from 60,000 to 160,000 users running on Resin Pro

Today, the Kyobo Mobile Bookstore continues to expand and is being used by about 160,000 people a day. Starting with the 2011, the mobile Kyobo Bookstore deployed major external services based on Resin Pro including:

- Used Marketplace
- E-Book Download
- Unattended Store Search
- Story
- Tok-soda Light Contents
- Mobile App

Resin Pro is able to successfully handle the rapidly expanding load of Kyobo Mobile Bookstore and provide its developers with the tools they need to maintain, update and secure their sites.

“Resin Pro has the advantages of being lightweight and fast. Above all, thanks to the fast and precise support of Xest Information Technology, we have been able to create our current Resin operating environment. Personally I've used WebLogic, Jeus, JBoss and other app servers. Resin is the most satisfying of all of them.”

–Kyobobooks IT Team Leader Seo-ho, Cho

Conclusion

Kyobobooks significantly increased their performance and reduced their dependency on third party apps by taking advantage of the powerful features built into Resin Pro.

By migrating to Resin Pro, Kyobobooks reduced their total cost of ownership (TCO) by 30%

With the technical support provided by Xest Information Technology, Kyobobooks developers are able to concentrate on the development and expansion of their business rather than on their low level infrastructure.

With no outside dependencies in their stack, developers can confidently use features of Resin Pro knowing they are optimized for future scalability. As an additional bonus of using Resin Pro, Kyobobooks receives QA and testing licenses free of charge. This allows them to stay one step ahead of their competition, mirroring their production setup as they implement new changes from their road map.

About Caucho Technology

Millions of sites worldwide successfully use Resin as the fastest and most reliable Java EE integrated solution for web applications. For almost twenty years, Caucho Resin has become recognized for high performance, security and reliability with 99.99% uptime reported by the majority of our customers, many of them Fortune 1000 companies and governments who have mission critical performance and security requirements. Caucho was founded in 1998 and is based in San Diego, California.

For more information please visit www.caucho.com

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