

Resin clustering = Nationwide scalability

Korea Chamber of Commerce Case Study

“We solved our nationwide scalability & performance problems using Resin clustering.”

“Additionally, we have achieved major performance benefits to our high traffic sites. We’ve experienced enough that migrating to Resin Pro was a very well judged choice in performance increase and cost savings aspects. We see Resin as long-term solution.”

-Jung Sir. IT Team, Korea Chamber of Commerce and Industry

Solution

Resin Clustering

Industry

Service

Product

Resin Professional WEB/WAS

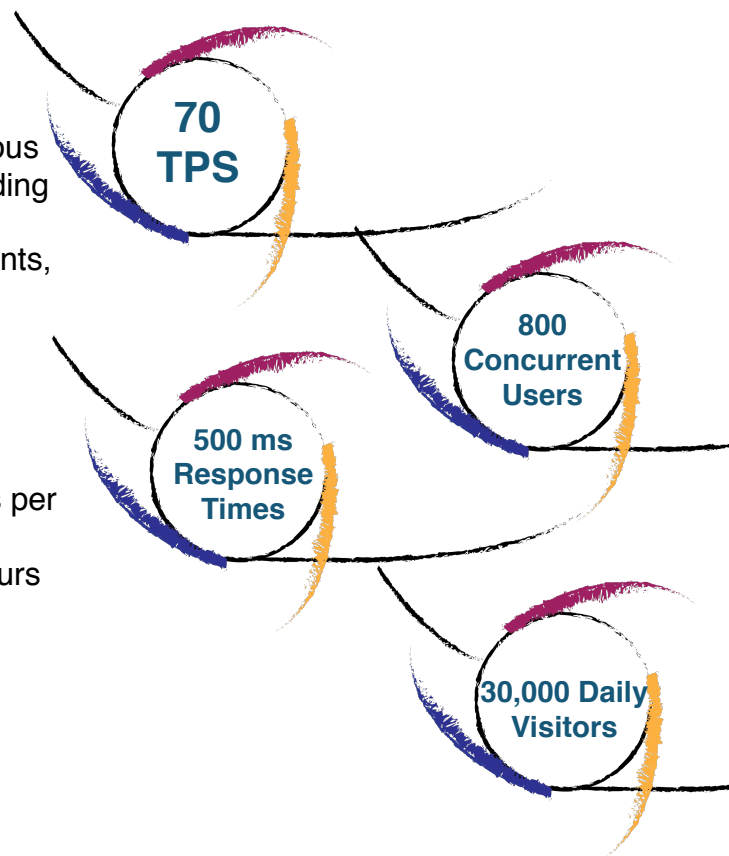
Country

South Korea 

Summary

The Korea Chamber of Commerce and Industry (KCCI) is a leading organization that provides various National Technical Qualification test services including computer application ability, electronic commerce manager, distribution manager, computation accounts, and other services in relation to qualification test.

Due to government requirements, the KCCI application must be always available through the Internet on a national scale. With service traffic averaging 30,000 daily visitors and 70 transactions per second on the web application, it is critical that the KCCI applications system operates services 24 hours a day without any problems.



Background

For years, KCCI had relied upon a domestic WAS solution for core application systems with database replication for availability. However, as the application grew to a national audience, the scale and cost quickly began to outpace the underlying infrastructure.

System Environment

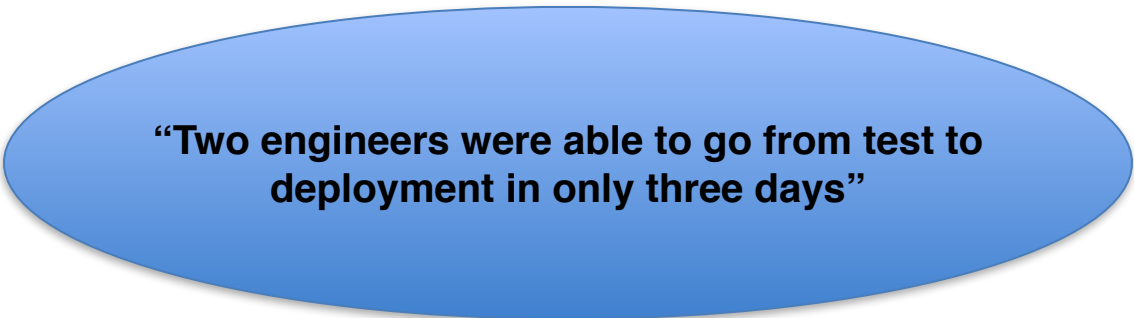
- ✓ OS: Cent OS
- ✓ JDK: 1.7
- ✓ H/W: IBM 2ea (8core *2cpu)

Resin Migration

For this reason, application developers agreed the underlying architecture needed to rely on in-memory operations rather than disk, in a reliable and clustered solution. While their current WAS solution offered clustering, it was both overly complex and required extensive application rebuilding in order to work.

Xest Information Technology, Caucho's longtime partner and distributor of Resin in Korea, guided KCCI through their migration to Resin Pro.

Resin Pro's triad clustering kept network traffic to a minimum, while providing an alternative Hessian binary format for clustering any object. This allowed legacy applications to benefit from cloud clustering through configuration instead of code reworking.



“Two engineers were able to go from test to deployment in only three days”

The result enabled KCCI to begin using session clustering throughout all major operations of their application with an average of 30kb per user sessions being maintained by Resin.

Due to the Java standards in existence and with assistance from Xest, two engineers were able to go from test to deployment in only three days. Resin's default configurations allowed them to maintain high availability and the ability to restart any server in under a minute.

Summary

After seeing firsthand in QA the stability and ease of use Resin provided, KCCI began a plan to transition their entire underlying infrastructure to Resin. Two engineers were able to migrate the service over in seven days. Not only did the migration provide stability and cost savings, Resin's internal monitoring capabilities for their receipt, homepage, and mobile applications proved useful for root cause analysis allowing them to improve overall performance by 10%.

Resin supports static and dynamic clusters with servers either defined in configuration files or added and removed as load demands. Its clustering supports both public and private cloud configurations for HTTP load balancing, distributed sessions and deployment.

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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