Keynote Talk

Application Servers: Virtualizing Location, Resources, Memory, Users and Threads for Business Applications and Web Applications

Martin Nally
IBM

Abstract

Application servers provide an environment for running business and web applications. By virtualizing threads, data and processing resources, memory and users, they provide the simplifying illusion for the programmer that the application is interacting with a single user, is running alone on the server, and is the sole user of resources, while allowing an efficient realization that scales with the number of users, and available hardware. They also provide a virtual environment where security enforcement and demarcation of transaction boundaries are automatic. This talk will describe some of the major features of modern application servers and show how concepts of virtualization are fundamental to their design and realization.

Bio

Martin Nally is an IBM Distinguished Engineer who joined IBM in 1990 with 10 years prior industry experience. He was the lead architect and developer for IBM VisualAge/Smalltalk, and lead architect and overall development manager for IBM WebSphere Studio. He has been designing tools for application server programming and designing application server programming model abstractions for over 10 years. His current titles are Chief Architect, Rational Desktop Tools, and co-chair of the IBM Software Group programming model workgroup.

VEE'05, June 11–12, 2005, Chicago, Illinois, USA.
ACM 1-59593-047-7/05/0006.