Abstract

The growth of heterogeneous networks has increased the demand of adopting robust and an
effective technology that can cope with the trend. Developers have always thought of an
effective way to manage a network taking in to consideration the current growth trend and the
complexities of modern network architecture. Extensive research yielded a concept called the
Mobile Agent paradigm. It came as an alternative to the traditional client server paradigm has
since proven to be the obvious choice as far as effective network management is concerned
This paper addresses the exploitation of Mobile Agents as a Network Performance monitoring
tool. The mobile agent agents used is a prototype owned by IBM Tokyo called Aglet. The aim
is to provide an intelligent codebase in java for the Aglet to retrieve performance variables and
other relevant data on a virtual network. Results are analyzed and conclusions are drawn
based on the analysis and evaluation

References

- Ostermann S., Comer D., 2011 Networking Applications Available from:
  http://oucsace.cs.ohiou.edu/~osterman/class/cs544.archive/notes/apps.pdf
Exploiting the Usage of Mobile Agents as a Network Performance Monitoring Tool for Network Fault Management – an Alternative to Other Traditional Approaches


Index Terms

Computer Science

Networks
Keywords
Network Management  Fault Management  Performance Management  Mobile Agents  Java  Aglet