



ROYAL UNIVERSITY OF PHNOM PENH

Master of Science in Information
Technology Engineering

Network Engineering

AVAILABILITY ANALYSIS OF WEB APPLICATION SERVERS BASE ON SERVERS VIRTUALIZATION

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Field related: Computer Science and Engineering

Abstract

Internet becomes the bridge in which connects people around the world. Many web applications servers have been successfully implemented and used widely through the Internet. For example, Google search engine, Facebook, Amazon web service, etc. On the other hand, in order to provide the users with a highly available service, many servers are required. Increasing the servers mean increasing the cost. So, a lower cost is required in the era of economic crisis. By this reason, virtualization technology is proposed in the study of providing high availability of the web server and lower cost.

References

[1] Thein T, Park J S. Availability analysis of application server using software rejuvenation and virtualization; Journal of computer science and technology: 339-346 Mar, 2009.

[2] A web link in which contains the key words: Server Virtualization, Managing a server virtualization environment, etc. Sometime it requires readers to register in order to read more contexts on the page.

- http://searchstorage.techtarget.com/report/Virtual-server-tutorial-Managing-a-server-virtualization-environment?asrc=EM_NLN_13684130&track=NL-52&ad=825946

[3] Report posted by John Foley about the high cost:

- *http://www.informationweek.com/cloud-computing/blog/archives/2009/08/washington_choo.html*
- *http://www.informationweek.com/cloud-computing/blog/archives/2009/06/cloud_computing_14.html*

[4] www.wikipedia.org: Virtualization

[5] Server Consolidation: Reduce IT Costs

- *<http://www.vmware.com/solutions/consolidation/>*

[6] IEEE Telecommunications (IST), Ahmadi, M.R. Maleki, D. Inf. Technol. Dept., Educ. & Res. Inst. for ICT (ERICT), Tehran, Iran; Performance evaluation of server virtualization in data center applications, 2010.

[7] IEEE Grid Computing, Alonso, J. Silva, L. Andrzejak, A. Silva, P. Torres, J. Tech. Univ. of Catalonia Barcelona, Barcelona; High-available grid services through the use of virtualized clustering, 2007.

[8] IEEE High Performance Computing and Communications, Kai Hwang, Univ. of Southern California, Los Angeles, CA, USA; Keynote: Virtual Clusters for Grid, Cloud, and High-performance Computing, 2009.