Abstract

The increasing popularity of E-Learning has invented new terms to education, as Virtual Classroom Learning, where students can interact with the professors from their home. Virtual learning is an effective alternative to traditional classroom learning. Virtual learning provides the methodologies and solutions such as distance learning and hybrid classes. It will have a significant impact on the educational environment in the upcoming days. One way to implement virtual classroom is using cloud computing. Cloud computing is an emerging new computing paradigm for delivering computing services. This computing approach relies on a number of existing technologies, e.g., the Internet, virtualization, grid computing, Web services, etc. Cloud computing is a construct that allows us to access applications that actually reside at a
location other than our computer and it is highly scalable and use virtualized resources that can be shared by all the users. In this paper it is argued that cloud computing is likely to be one of those opportunities sought by the educational institutes that cannot afford much money (due to its flexibility and pay-as-you-go cost structure with improvements in efficiency and flexibility of education). Cloud computing is an excellent alternative for educational institutions which are especially under budget in order to operate their information systems effectively without spending more for the computers and network devices. For big institutes, Cloud computing helps to cut operational and capital costs and let IT departments focus on strategic projects instead of keeping the datacenter running.

References

- Paul POCATILU, “Cloud Computing Benefits for E-learning Solutions”; in Oeconomics of Knowledge, Volume 2, Issue 1, 1Q 2010
- Case Study in Schools, IT, and Cloud Computing The Agility for 21st Century eLearning by Intel Education
- Frank Doelitzscher, Anthony Sulistio, Christoph Reich, Hendrik Kuijs and David Wolf, “Private Cloud for Collaboration and e-Learning Services: from IaaS to SaaS”; 
- Bo Dong, Qinghua Zheng, Jie Yang, Haifei Li, Mu Qiao, “An E-learning Ecosystem Based on Cloud Computing Infrastructure”; in Ninth IEEE International Conference on Advanced Learning Technologies 2009

Index Terms

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Cloud Based Learning  Virtual Learning  Virtual Classroom  Software As A Service  Cloud Computing
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