The effect of cloud computing technology in personalization and education improvements and its challenges

Mansour Jalali a, Asgarali Bouyer a *, Bahman Arasteh b, Maryam Moloudi a

a Department of Software Engineering, Miandoab Branch, Islamic Azad University, Miandoab, Iran
b Department of Computer, Tabriz Branch, Islamic Azad University, Tabriz, Iran

Abstract

With emergence of electronic systems and removal of paper, virtual technologies and electronics are becoming important. This paper discusses the importance of electronic training and emphasizes on its qualitative and quantitative development for some organizations or technical science and engineering students. The main focus of paper is on utilizing grounds of training based on usual network infrastructures such as internet or advanced distributed systems such as cloud computing environments. Finally, in new environments such as cloud computing, service composition and presenting virtual machine based on student’s requirements and abilities significantly is more important that we address some problems in this issues.

Keywords: Virtual education, Cloud computing, Virtualization;

1. Introduction

The emergence of computer has transformed business dramatically. The significant characteristic of this era is information explosion that has happened due to dramatic technology growth. The amazing speed of information technology growth has created a scheme that organizations should have required capabilities to encounter it so that keep on in the route of growth and development. This situation has some requisites that we should possess them. We should act in a manner that could have a dynamic organization in the world competitions and use properly the capabilities that are in this world. One of these capabilities is virtual education and localizing it in organization. Virtual education (VE) means utilizing electronic systems such as computer, internet, multimedia disks, electronic books, journals and virtual newsletters, etc (Kurbel, 2001). The aim of VE is to reduce comings and goings and to save time and cost and to learn easily for trainers and learners/ students.

Throughout 2009 cloud computing has continued to catch eyes and efforts both in industry and academic organizations. Cloud solutions seemed to state master keys for the IT enterprises who suffer for budget concerns and economic woes (Teng and Magoules, 2010). Cloud computing, a new paradigm of distributed computing, presents many new ideas, concepts, principals, technologies and architectural styles into service-oriented computing . I. Foster, defines the ambiguous cloud as “A large-scale of distributed computing paradigm that is driven by

* Corresponding Author: Mansour Jalali Tel.: +989144816448
E-mail address: basgarali2@live.utm.my or phdutm2009@gmail.com