ABSTRACT

Cloud computing is the fastest area of application within the information systems field. Most computer and networking companies are trying to either enter into this area or increase their existing market share. The adoption of cloud computing by businesses and academic institutions is on the rise. This paper first examines the existing opportunities and challenges in cloud computing environment and then offers eight checklists for managers to consider before adopting this technology. If these checklists are carefully analyzed they should increase the chances of success when deploying cloud computing into your organization (Bidgoli, 2014).

Keywords


INTRODUCTION AND BACKGROUND

Cloud computing is the fastest area of application within the information systems field. Most computer and networking companies are trying to either enter into this area or increase their existing market share. Even during the economic down turn, cloud computing related jobs have been in high demand (Krill, 2010). Some experts believe that cloud computing could save the economy. In a survey conducted by CRN, 68% of the respondents indicated that cloud computing will help their businesses recover from the recession. More than 600 IT and business decision makers in the United States, the United Kingdom, and Singapore participated in the survey (Linthicum, 2010). The adoption of cloud computing by businesses and academic institutions is on the rise. Cloud computing platforms could reduce cost and increase the information systems responsiveness for those companies that are properly adopting it.

However, many organizations do not follow a systematic approach before adopting this technology, and to be able to better understand the many opportunities and challenges that this fast growing platform offers. This paper presents eight checklists that if followed should increase the chances of success when introducing cloud computing into your organization. These checklists provide managerial literacy as well as checklists that organizations could use before introducing this technology into their organizations. The checklists include (Essers, 2012, Biswas, 2011, Vaughan-Nichols, 2012, Williams, 2012):

CHECKLIST #1: Understanding Grid Computing
CHECKLIST #2: Understanding Application Service Providers
CHECKLIST #3: Understanding Utility (On-Demand) Computing
CHECKLIST #4: Understanding the Components of a Cloud Platform
CHECKLIST #5: Understanding Public, Private, Hybrid, and Community Clouds
CHECKLIST #6: Understanding the Security Issues In Cloud Computing
CHECKLIST #7: Understanding Cloud Computing Failures and Challenges
CHECKLIST #8: Preparing a Cloud Computing Plan for Implementation

RESEARCH QUESTIONS

Is cloud computing adoption ROI justified?
What are critical success factors in cloud computing implementation?
How to increase chances of success while introducing cloud platforms into your organization?
What to do if cloud computing implementation fail?

CONCLUSION

This paper introduced eight checklists for introducing cloud computing into your organization. The eight checklists include: (1) understanding grid computing, (2) understanding application service providers, (3) understanding utility (on-demand) computing, (4) understanding the components of a cloud platform, (5) understanding public, private, hybrid, and community clouds, (6) understanding the security issues in cloud computing, (7) understanding cloud computing failures and challenges, and (8) preparing a cloud computing plan for implementation. If these checklists are carefully analyzed and followed, they should increase the chances of success for the introduction and utilization of this fast growing technology.

REFERENCES


