

Documents

Ali, M.F., Batarfi, O.A., Bashar, A.

A simulation-based comparative study of Cloud Datacenter scalability, robustness and complexity

(2016) *2015 IEEE 7th International Conference on Intelligent Computing and Information Systems, ICICIS 2015*, art. no. 7397275, pp. 547-551. Cited 1 time.

Abstract

This paper presents a novel approach towards a comprehensive analysis of various simulation-based tools to test and measure the Cloud Datacenter performance, scalability, robustness and complexity. There are different Cloud Datacenter resources in cloud Computing Infrastructure like Virtual Machine, CPU, RAM, SAN, LAN and WAN topologies. The server machines need to be analyzed for their extent of utilization in terms of energy and service to clients in cloud computing. We have analyzed various Cloud resources using CloudSim, CloudReports and Cloud Analyst tools. Resources provisioning, Cloud Management, Load Balancing, Robustness and Cloud Scalability are the primary scope of work discussed in this paper. In this regard, some Simulation test results and Simulations are presented in order to compare them with real time scenario to bring the performance and scalability issues into our notice for future directions. © 2015 IEEE.

2-s2.0-84969980338

Document Type: Conference Paper

Publication Stage: Final

Source: Scopus