Abstract

Cloud computing has brought a revolution in the field of computing. Many algorithms are proposed to make it even more efficient. In cloud computing, Virtualization plays an important role and the whole performance of cloud depends on VM allocation and Migration. As lots of energy is consumed in this technology, so algorithms to save energy and improve efficiency are proposed called Green algorithms. In this paper, a green algorithm for VM Migration is proposed using meta-heuristic algorithm called ACO. The variant of ACO used in this paper is Max-Min Ant System. Results show that Max-Min Ant System gives the best result as compared to other approaches in terms of VM Migrations, VM consolidation, and energy consumptions.

References


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Index Terms

Computer Science

Distributed Computing

Keywords