CELBT: An Algorithm for Efficient Cost based Load Balancing in Cloud Environment

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Abstract

Cloud computing is interesting era of research where the multiple component, heavy hardware and architecture take part to execute the data and user processes. To maintain different virtual machines, data centers at different locations are required. Sometimes may be over burden on any datacenter and failure or downtime of the datacenter occurred. Thus in order to provide solution a load balancing technique is used which directs the request to an appropriate server for fast computation. Various traditional techniques such as Throttle, Round Robin were introduced but having some drawback with computation time and communication cost which makes them less efficient. In this paper we present CELBT (Cost Effective Load Balancing Technique) which compute the same data transfer in less computation time and cost. In this paper an evaluation is performed on CloudAnalyst tool to compute the parameters like time, cost and found the algorithm proven its effectiveness while compared with existing algorithms.

References


Index Terms

Computer Science

Distributed Systems
Keywords

CloudAnalyst, Load Balancing, CELBT, Virtualization.