Dynamic Divisible Load Balancing Algorithm for Balancing Workload in Cloud Computing

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Abstract

One of the developing zones in the field of data innovation is Cloud Computing. Cloud computing is a term which includes virtualization, systems services, programming and web services. Cloud computing helps to share data and provides many resource to users. It incorporates adaptation to internal failure, high accessibility, adaptability, decreased overhead for clients, reduced expense of proprietorship, on interest administrations and so forth. Load balancing is a central challenge in cloud computing because measure of information storing increments rapidly in open environment. Load balancing is a way toward redistributing the workload among Datacenters to improve both asset use and job reaction time. Load balancing aids to allocate the static / dynamic workload across numerous nodes to guarantee that no solo node is overloaded. Several existing algorithms deliver load balancing and improved resource utilization. There are several type of loads are possible in cloud computing like memory, CPU and network load. The work presented in this paper provides better algorithm for balancing loads in cloud environment. The methodology adopted for this dissertation has minimized the make span time of the system and got better throughput of the system. The tool used to prove
this work is CloudSim with integrated development environment as Java Eclipse.

References


Index Terms
Keywords

Load Balancing, Datacenter, Broker, Host, Cloud Virtualization, CloudSim, Dynamic load balancing, Load balancing Algorithm.