An Efficient Distributed Dynamic Load Balancing Method based on Hybrid Approach in Cloud Computing

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Abstract

Cloud Computing shares data between cloud users over the internet and provides it to different resources. There are many challenges faced in cloud computing. The main one is Load balancing. Many researchers have been working on load balancing but still a lot of work has to be done to provide efficient & optimal load balancing method. In this dissertation we are proposing a new hybrid algorithm, which is based on distributed and dynamic load balancing. The basic idea behind the EDLBHA is to identify unused machines and resources earlier in shortest access time and also adding a new dynamic balancing parameter, which is based on distributed priority load distribution with dynamic load partitioning. The proposed EDLBHA method is compared with existing Load balancing algorithm with Cloud Simulator. Simulation results clearly shows that our proposed EDLBHA perform outstanding over existing algorithms in term of various performance measurement parameters such as waiting time, turnaround time and throughput

References


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Index Terms

Computer Science

Distributed Computing

Keywords

Cloud computing, Load balancing, Virtualization, Honey bee, distributed and dynamic load balancing, Resource utilization.