Response Time Reduction and Performance Analysis of Load Balancing Algorithms at Peak Hours in Cloud Computing

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Abstract

We are living in Digital Age which is undoubtedly the outcome of highly developed internet and its corresponding technologies. Cloud computing has become prominent as more people, organizations, entrepreneur, are moving towards it as it facilitates them to achieve their dreams in less investment. Now people from all over the globe are demanding for various services in rapid rate which has lead to bursty workloads on data centers thereby creating peak hour optimization problem to be handled. It has also lead to problem of load balancing which should be addressed to increase the efficiency of data centers. In the present work, peak hour optimization is being aimed and algorithms are being analyzed for large scale application to find efficient algorithm for real time scenario. Further, a novel strategy is being proposed to decrease the response time and DC processing time of algorithms without increasing the overall cost.

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**Index Terms**

Computer Science  
Distributed Systems

**Keywords**

Load Balancing, Cloud computing, Round Robin, Throttled, Equally Spread Current Execution