

## **Abstract**

Cloud computing is a modern paradigm for delivering services over the internet. The number of user requests that access the server in a very large number, will affect the server has overloaded. So it takes a solution to the problem of excessive load on the server so that it can be distributed evenly across multiple servers. Therefore, providing an efficient mechanism of load balancing algorithm is the key to the success of cloud computing environments.

Load balancing is a key aspect of cloud computing and avoids situations where multiple nodes become overloaded while others are idle. Load balancing can improve the metrics in Quality of Service (QoS), including response time, cost, throughput, performance and resource utilization.

The purpose of this paper is to propose an effective, efficient and optimized scheduling algorithm to be used to keep the load balanced and provide an efficient resource allocation technique. In this paper the composite algorithm approach is applied for load balancing using Throttled and Weighted Round Robin algorithms.

**Keywords:** *Cloud Computing, Load Balancing, Simulation, Cloud Analyst, Virtual Machine, Throttled, WRR.*