Abstract

Cloud computing is emerging as a new standard model for enabling ubiquitous network access, computing resources, deploying, organizing, and accessing vast distributed computing applications over the network. In cloud computing, Load balancing is one of the main challenges which are required to distribute the workload equally across all the nodes. Load balancing uses services offered by many computer network service provider corporations. Load balancing can be different types like network load, storage capacity, memory capacity and CPU load. Load balancing helps to achieve a high user satisfaction and resource utilization ratio by confirming an efficient and fair allocation of every computing resource. Proper load balancing support in implementing failover, enabling scalability, over-provisioning, and decreases costs associated with document management systems and maximizes the availability of resources. This paper describes a survey of different dynamic load balancing algorithms in the cloud environment with their comparisons on the bases of different load balancing metrics.


30. Y. Zhao, and W. Huang, “Adaptive Distributed Load Balancing Algorithm based on Live Migration of Virtual Machines in Cloud”, Proceedings of 5th IEEE International Joint Conference
on INC, IMS and IDC, Seoul, Republic of Korea, August 2009, pages 170-175.


Index Terms

Computer Science Distributed Computing

Keywords

Cloud Computing, Load balancing, load balancer, static load balancing, dynamic load balancing algorithm, load balancing metrics.