Abstract

Cloud computing has become a new style of computing over the internet. There are so much advantages to use cloud over the internet as well as some critical issues are also there those must be resolved in order to improve the performance of the cloud. Cloud computing faces several issues over the internet those are like load management, task scheduling, fault tolerance, several security issues are there. Among them the load balancing is one of the main issue to be resolved in the order to improve the efficiency of the cloud. The load balancing describes that the dynamic workload of the system is distributed among various nodes in such a manner that none of the node is overloaded or underutilized. The load may be CPU load, memory capacity, delay or network load. There are various load balancing algorithms are designed to equally divide the load among the resources and maximize the utilization while minimizing the total task execution time. The new concept was discussed earlier that was using soft computing techniques to perform enhanced load balancing in cloud computing. Various load balancing algorithms are discussed here and comparative study is done on the basis of their performance.

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Index Terms

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Cloud computing, soft computing, load balancing strategies.