Abstract

The load balancing is vital factor in communication networks of distributed system. The main purpose of this factor is to assign arriving or internally generated tasks or jobs among processing nodes of a distributed system in such a way that provides the highest utilization of the system resources and also maintain the fairness to the jobs. If the load balancing is not implemented properly, it decreases the QoS of real-time applications. It also hampers the
effectiveness, accuracy of the data transmission technique, scheduling and processing time of the technique. So, it is essential to consider the factor that affects the load in the network. The main requirement of the load balancing in the system is, the two nodes can have direct communication only if their distance is under certain threshold, low bandwidth and nodes are energy constraint. Therefore, it is crucial to balance the number of packets passed by each node. In this paper, the focus is on the techniques that are designed specially to balance the load that exhibit adaptive approach for providing efficient and effective performance in the distributed system.

References


Index Terms

Computer Science  Engineering and Technology
Keywords
Load balancing  distributed system  routing and scheduling  bandwidth  resource management  stretch factor