

Abstract

In the network, bandwidth is an expensive commodity. Large bandwidth used is directly proportional to the magnitude of cost. One way that can be taken to deal with the need for bandwidth is by doing bandwidth management. Stochastic Fairness Queuing (SFQ) and Token Bucket Filter (TBF) as an implementer of the available bandwidth management for free is a method of discipline is appropriate queue Classless analyzed its impact on application network performance. SFQ and TBF would be implemented in a router using linux operating system Ubuntu. To know the effect of the application of these two disciplines queue of network application performance will be measured and analyzed the throughput and response time. Compare with SFQ, TBF is a complex algorithm. With TBF, the data packets sent depends on the availability of tokens. Implementation will be carried out for both disciplines queue and will be seen the influence of its application in network applications such as HTTP, SMTP, FTP and SSH. For networks, throughput and response time generated by the queue discipline TBF (Token Bucket Filter) better than the queue discipline SFQ (Stochastic Fairness Queuing).

Keyword: *Bandwidth managemen, SFQ, TBF*