

ABSTRACT

There are so many organizations that use their internet access by a group of people. Universities, offices, cyber cafe, and many more are the examples of such organizations. The use of internet access by a group of people can decrease the network performance linearly as the user increase, especially if the allocated bandwidth is not organized well.

Quality of Service (QoS) hold a very important job in here. Linux as an open and free operating system, has offer lots of different QoS technic to facilitate the bandwidth management process in computer networks. One of the technic offered by Linux is to use Hierarchical Token Bucket (HTB), that guarantee the network users to get the allocated bandwidth , and there is also a fair bandwidth sharing mechanism which in a network so that we can keep the network performance controlled by us.

HTB can guarantee that classes can have their allocated minimum bandwidth for them, and if there is excess bandwidth, the excess bandwidth can be used by the other classes.

This paper will show how to control 512 kbit/s bandwidth with HTB, and we will see the effect of HTB to response time which can keep response time average below 10 ms although the network is full.