ABSTRACT

In browsing, uploading and downloading on the internet sometimes feel slow internet access. Because the number of computers in an institution that wants to connect to the internet is not matched by the availability of IP and bandwidth. ISP links have been overloaded, or many open sites that consume a lot of bandwidth making internet access slow. Lack of bandwidth allocation for each user becomes an internet traffic problem.

The existence of appropriate bandwidth management in optimizing bandwidth limitations, can manage and monitor the bandwidth of each user, so that restrictions on access to websites that require large bandwidth can be overcome. With facilities that are constantly being developed, the internet is able to beat communication and information media. Bandwidth is the transfer value in units of bit / second between the server and client in a certain time. Bandwidth that is not regulated properly causes the connection in one network to be less stable and not optimal.

Bandwidth management is a technique for setting the amount of bandwidth in uploading and downloading data. Bandwidth management is carried out by implementing one method on the router as a link in the internet network. The method used is simple queue method. The simple queue method is to mark packets entering the router implemented on a proxy router.

An approach with direct experiments is practiced using a PC, an operating system for managing bandwidth, and supporting applications. The research method used includes analytical methods and optimizing bandwidth management methods by configuring the proxy using simple queue. The results of the research are the optimal management of existing bandwidth so that the distribution of bandwidth can be in accordance with the needs of each employee. With the distribution of bandwidth so that internet access is not hampered.

Keywords: bandwidth management, bandwidth, internet, mikrotik, simple queue