ABSTRACT

Web server is a software that provides data-based services and used to receive requests from the HTTP protocol. Generally the distribution of traffic or requests to the server is uneven. To handle these problems, the Load Balancing method is used. In this paper, a comparison of Round Robin and Weighted Round Robin algorithms is performed to determine the performance of load balancing on Software Defined Network. The parameters that used are latency, jitter, throughput, cpu usage, and memory. Based on throughput and jitter testing, the weighted round robin algorithm has better performance than the round robin algorithm. In latency testing the weighted round robin algorithm has a faster performance than the round robin algorithm. In the cpu usage and memory test, the weighted round robin algorithm has a smaller cpu and memory usage compared to the round robin algorithm.

Keywords: Software Defined Network, Load Balancing, Round Robin, Weighted Round Robin