ABSTRACT

In terms of accessing a website, a good website can improve the relationship between customers and owners. Therefore, a fast and reliable webserver is needed in this era. A reliable webserver will be able to process customer requests quickly and shorten the load time when customers access the website. Openlitespeed is a webserver with efficient memory usage, also provides an interface. Nginx was also developed to handle high-performance web traffic while minimizing resource usage. The choice between the two will depend on the specific needs and preferences of the user. This study aims to analyze and compare the Nginx and Openlitespeed webservers using the stress test method using Software Defined Network (SDN). The parameters used in this research are response time, throughput, ram usage, and cpu usage to determine the best webserver. This study conducted tests using Apache Jmeter and found that in 8 tests Request 500 users with 10 seconds, 500 users with 20 seconds, 1000 users with 10 seconds, 1000 users with 20 seconds, 1500 users with 10 seconds, 1500 users with 20 seconds , 2000 users with 10 seconds, 2000 users with 20 seconds. The results were found in 8 tests for each parameter, Openlitespeed is superior with the Response time parameter superior to 6 trials, then in the throughput test also Openlitespeed is superior with the Throguhput parameter. In testing RAM and Cpu Usage, it was found that Nginx consumes less resources than Openlitespeed. But Openlitespeed has a stable value and doesn't tend to jump. So from all the tests it was found that Openlitespeed is superior to Nginx.
Keyword : SDN, Stress Method, Openlitespeed, Nginx.