

ABSTRACT

The development of technology on internet networks is increasing. This increase also had an impact on the server because the server had difficulty distributing request. To meet internet needs, the technique that can be used is load balancing. Load balancing is a technique to use two or more internet connection lines and balance the request between the two internet connection lines. In this final project, the main problem to be discussed is a simulation on the ant colony optimization algorithm on load balancing. The test results of load balancing using ant-colony optimization algorithm is able to increase throughput and CPU utilization evenly.

Keywords: *SDN (Software Defined Network), Load-balancing, Ant-colony Optimization*