ABSTRACT

The increasing number of internet users make the server load is getting heavier, the use of load balancing technology helps to reduce the load on the server so that the server work is not overburdened. Currently, the use of load balancer is still very limited because there are many limitations on it so that it becomes inflexible and too expensive to implement. There is a technology that overcomes the limitation problem on the load balancer. SDN is a technology that separates the function between control plane and data plane, making the control plane as the center of decision within the network. In this final project, we propose a load balancing method based on the combination of least connection and response time, this method will be used as a comparison parameter for a decision in server forwarding. With this method the results obtained by comparing between the use of load balancing and without load balancing, the response time has decreased by 58.77%.

Keywords: Software Defined Networking (SDN), Load Balancing, Least Connection, Response Time.