

ABSTRACT

In the era of Big Data, data is very important for companies, institutions and governments. In this era, big data can be applied as a benchmark for making business strategy decisions based on the information available in big data. In its implementation, big data requires adequate storage space and of course with no small cost. To optimize storage, special methods are needed in order to minimize costs and optimize existing servers. High Availability is a concept that makes a server will still be able to serve traffic even though it is experiencing disruptions to physical and virtual servers.

One solution to get a better quality of internet service is to use load balancing technology. We can use more than one internet connection from different internet service providers which are then balanced with Load Balancing technology. Load balancing method ECMP (Equal Cost Multi Path) and Method PCC (Per Connection Classifier) are examples of load balancing methods that are often applied to computer networks.

The problem we are facing is that each of these load balancing methods has several advantages and disadvantages And then Basically the use of the ECMP and PCC methods has different characteristics, but for its use the PCC method is very good to use because the resulting packet loss value is less than ECMP

Keywords: Load balancing, ECMP, PCC, Packet loss