ABSTRACT

Use of network IP this time have utilized very wide, and applications working in this network IP highly varied, from web untill applications that having the character of real time. For web application especially at one particular web server with big request connection, require a mechanism that capable to give good service storey.

Clustering is a mechanism that is use more than one web server owning same content one another, to divide connection from client to every web server and improve performance. On multi point clustering architecture model, using technique of Domain Name Server-Round Robin to instruct packet of request of application HTTP on port 80 to available web servers.

Use of DNS-Round Robin still need technique of Load Balancing in order to make the burden of each web server which be at cluster earn more flatten. The technique besides will be more balance the burden of every server also will improve performance of service of web server, that is by election of web server by smallest burden to serve incoming request by using candidation function. This matter will improve mainstay of web server by minimizing the possibility of the happening of service deduction to incoming request because of too old time respon.

At this final project is implemented Load Balancing of network IP with application of web server, to control to resource management. Implementation conducted on model of multi-point clustering architecture, where existing web servers be at one domain. Also will be given an analysis of service efficiency, time respon, and flatten service by server in cluster using this Load Balancing.