

## ABSTRACT

In computer networking, load balancing is a technique to distribute the workload evenly in two or more computers, network links, CPUs, hard drives, or other resources, to get optimal resource utilization, maximize throughput, minimize response time, and avoid overload. By implementing load balancing in multi ISP hotspot cafe as an Internet resource that is used, expected to maximize throughput, minimize response time and avoid overloading the use of the internet cafe on the hotspot.

Round-Robin algorithm divides the incoming requests in a rotation, so let's say there are three servers that are members of a cluster, when the first request, then server A will handle his second request Server B, the third request the server C. Then when there is a request to-4 will be rotated back to server A and then redirect to-five will be given to server B, and so on. Weighted Round-Robin Allocation algorithm is an algorithm developed from Round-Robin, little difference is that this algorithm can divide a higher load to servers or clusters that have a larger resource

In this final project a Weighted Round Robin Allocation Load Balancer will be applied at a cafe hotspot.

Keywords: hotspot, billing, cafe, Weighted Round-Robin Allocation, Load Balancer