

Abstract

Nowadays, the use of internet has increased rapidly. This situation has caused stress to web server so that the performance of web server to decrease. On the other hand, the user wants low latency, high throughput and high availability. Load balancing is a technique for improving web server performance distribution. Load balancing can provide high availability through redundant server and reduce latency by dividing load between the back end server.

There are many algorithms and techniques for implementing load balancing. One technique is the application of which functioned as the controlling dispatcher. In most cases this dispatcher also determines the selection back end server that will serve the request based on the algorithm applied. These dispatchers push request to the back end server. The aim in this final task is to implement load balancing technique with dispatchers, but dispatchers in this final act as central queue to store requests from the client. The decision who will serve the request is determined solely by the back end server based on utilities of CPU that owned.

The result of dispatchers system then is being tested with the parameter value of throughput. After that, the results compared with the system dispatchers using round robin algorithm. The results show that, overhead experienced in the pull-based receiver system causing the resulting response rate is not maximal so that the values obtained throughput is smaller than dispatchers' round robin system.

Key word : load balancing, dispatcher, central queue, pull based