IMPLEMENTATION OF ADAPTIVE ROUND-ROBIN
ALGORITHM FOR LOAD BALANCING ON MYSQL
PROXY

Name : R. M. Aditya Baskoro
NRP : 5106 100 068
Major : Teknik Informatika FTIf-ITS
Supervisor I : Wahyu Suadi, S.Kom, MM, M.Kom
Supervisor II : Baskoro Adi Pratomo, S.Kom

Abstract

The development of information technology with the human need for this technology is increasingly making the data needs of information technology will increase, many ways to store and process data such as using a database, but as the growing need for fast data, the single database is less effective in meeting the needs of these data, it was then created a cluster database system that has managed by a load balancer, it makes the database system can get a failover, high availability and horizontal scaling easily.

This final project will be part of it. Using MySQL Proxy as a Load Balancer, it is expected to improve the performance of database systems that are expected to meet the growing need for fast data. This system also provides failover and a nearly flat distribution of requests according to the backend server capabilities

After the implementation and testing, we can know that with MySQL Proxy and the adaptive round-robin algorithm, this system can be applied to achieve this goal. Where With this implementation the performance of database systems increased as compared to a standard whereby when
MySQL Proxy client multiplying the results of time-per-request generated by the application will become increasingly better than the standard MySQL Proxy, whereas high-availability failover will add to this database system. With sustainable development, this system is expected to become more perfect and useful to increase system performance on the MySQL database cluster.

Key Word: MySQL Proxy, Lua, Load Balance, Failover, Database, Read Write Splitting