

CHAPTER VI

CONCLUSION

6.1. Conclusion

Based on the result project, it can be concluded that load balancing method can set together with the failover method and database replication method to build a server cluster architecture. The results of the testing:

- Load balancing method with Round-Robin algorithm can resolved the failed requests problem when network traffic is busy.
- The combination of failover method and database replication (Heartbeat and MySQL Master to Master Replication) can resolved server failure problem on data and all of data database server to be identical, so that the data able safely backed up.
- The server cluster architecture in this project have slower response time. One is because there are process request from the server to other server or greater known as Network Latency.

6.2. Further Research

Server cluster architecture in this project can solve the problems such as failed requests, server failure, and data loss. For furthermore research, a server cluster architecture can be developed using other methods such as load balancing on hardware and load balancing on a Windows Server OS. This server cluster architecture not have a good response time, so need installation a different network on remote database for getting the best response time.