

DAFTAR ISI

| | Hal |
|---|----------|
| Halaman Judul | i |
| Halaman Pernyataan | ii |
| Halaman Pengesahan | iii |
| Abstrak | iv |
| Kata Pengantar | v |
| Daftar Isi | vii |
| Daftar Tabel..... | viii |
| Daftar Gambar | ix |
| BAB I PENDAHULUAN | 1 |
| 1.1. Latar Belakang | 1 |
| 1.2. Rumusan Masalah | 2 |
| 1.3. Tujuan Penelitian | 3 |
| 1.4. Batasan Masalah | 3 |
| 1.5. Metodologi Penelitian | 3 |
| 1.6. Sistematika Penulisan | 4 |
| BAB II LANDASAN TEORI | 5 |
| 2.1. Pengertian Server | 5 |
| 2.2. Proxy Server | 6 |
| 2.2.1. Pengertian Proxy Server | 6 |
| 2.2.2. Fungsi Proxy Server | 7 |
| 2.2.3. Macam-macam Traffic Proxy Server | 8 |
| 2.2.4. Service Control Gateway (SCG) | 9 |
| 2.2.5. Cache | 10 |
| 2.3. Load Balancer | 11 |
| 2.3.1. Pengertian Load Balancer | 11 |
| 2.3.2. Algoritma Load Balancer | 12 |
| 2.3.3. Fitur Load Balancer | 13 |
| 2.4. Quality of Services | 14 |
| 2.5. Internet Services Provider | 16 |

| | |
|---|-----------|
| 2.6.GPRS Gateway Support Node (GGSN)..... | 17 |
| BAB III PENYEIMBANG BEBAN | 20 |
| 3.1.SCG Service Flow | 20 |
| 3.2.Traffic Flow Sistem SCG | 22 |
| 3.3.Traffic Proxy | 24 |
| 3.3.1. Transparant Traffic Proxy..... | 24 |
| 3.3.2. Explicit Traffic Proxy..... | 26 |
| 3.4.Algoritma Least Connection Pada Load Balancer | 27 |
| 3.4.1.Load Balancer | 27 |
| 3.4.2. Algoritma Least Connection | 29 |
| 3.5. <i>Flowchart</i> Algoritma Least Connection Pada Load Balancer.. | 30 |
| BAB IV HASIL DAN PEMBAHASAN | 36 |
| 4.1. Active Connections Pada Cache Proxy | 36 |
| 4.1.1.Algoritma Round Robin | 36 |
| 4.1.2.Algoritma Least Connection..... | 39 |
| 4.2. Cache In Pada Cache Proxy..... | 41 |
| 4.2.1.Algoritma Round Robin | 41 |
| 4.2.2.Algoritma Least Connection..... | 43 |
| 4.3. Cache Out Pada Cache Proxy | 44 |
| 4.3.1.Algoritma Round Robin | 44 |
| 4.3.2.Algoritma Least Connection..... | 45 |
| 4.4. Throughput Load Balancer dengan Algoritma Round Robin .. | 46 |
| 4.5. Throughput Load Balancer dengan Algoritma Least Connection | 48 |
| BAB V PENUTUP | 52 |
| 5.1. Kesimpulan..... | 52 |
| 5.2. Saran..... | 53 |
| Daftar Pustaka | 54 |
| Lampiran | 55 |