Nomor 7

ab -n 1000 -c 100 http://10.64.2.2:82/ (Weight Round Robin)

Nomor 8

I.   Hasil Testing

Algoritma Round Robin

ab -n 200 -c 10 http://10.64.2.2:81/ //No 8 RoundRobin

Request per second : 2030.23

Algoritma weight RoundRobin

ab -n 200 -c 10 http://10.64.2.2:82/ //No 8 weight RoundRobin

Request per second : 2079.59

Algoritma leastconn

ab -n 200 -c 10 http://10.64.2.2:83/ //No 8 leastconn
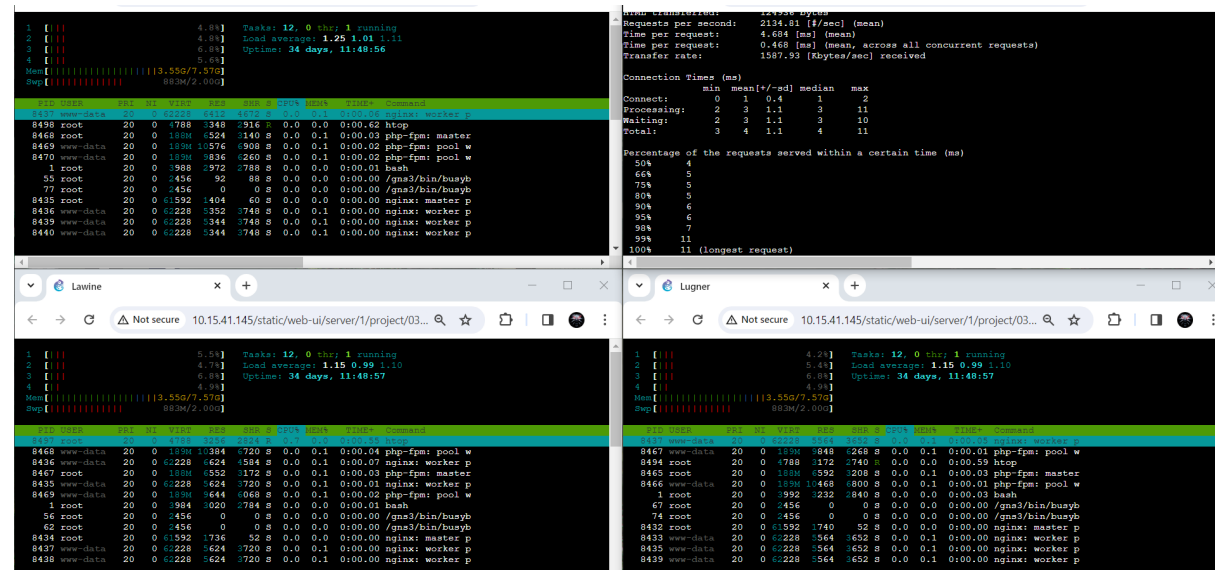
Request per second : 2134.81

Algoritma Ip Hash

ab -n 200 -c 10 http://10.64.2.2:84/ //No 8 ip_hash
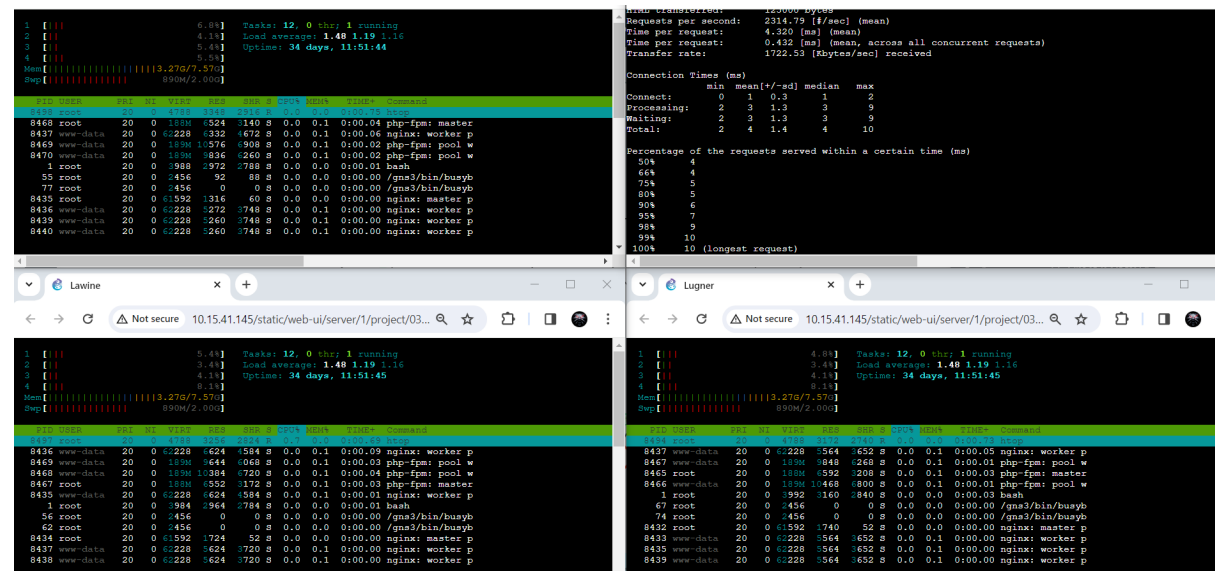
Request per second : 2134.79

Algoritma Generic Hash

ab -n 200 -c 10 http://10.64.2.2:85/

Request per second : 2007.91

II.   Grafik

Points scored

Round Robin 2030.23
weight Round Robin 2079.59
Leastconn 2134.81
Ip Hash 2134.79
Generic Hash 2007.91

III.   Analisis

Berdasarkan hasil testing dengan 200 request dan 10 request/second, algoritma Load Balancer "Leastconn" menunjukkan kinerja paling optimal dengan rata-rata 2134.81 request per second, menunjukkan bahwa pendekatan pemilihan server berdasarkan jumlah koneksi terendah memberikan distribusi beban yang efisien dan efektif.

Nomor 9

I.   Hasil Testing (Algoritma Round Robin)

1 Worker
ab -n 100 -c 10 http://10.64.2.2:891/
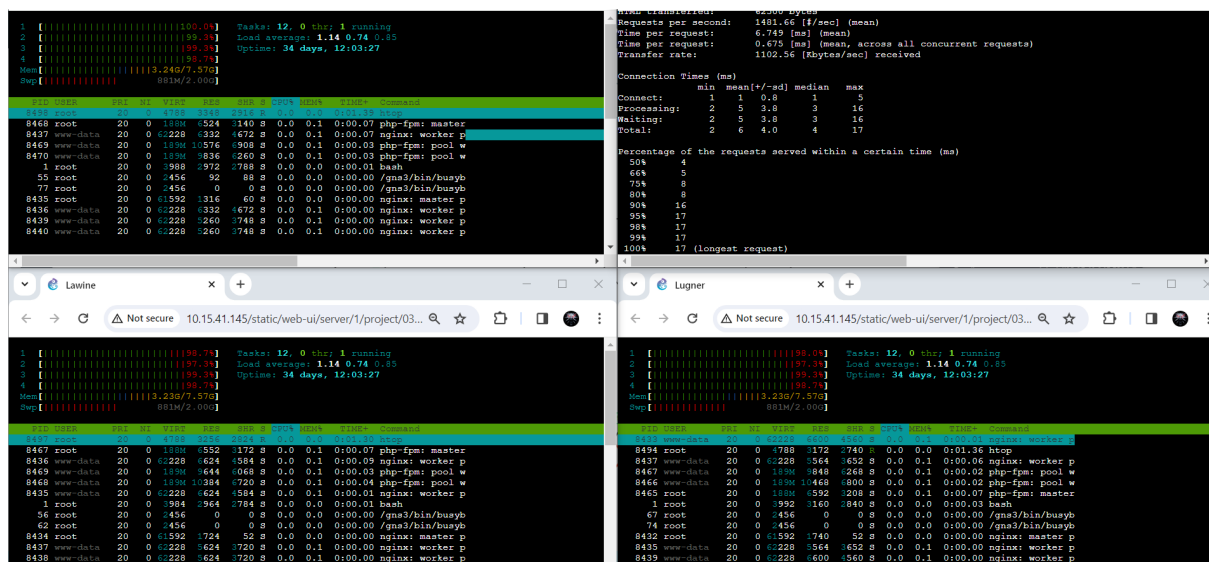
Request per second : 1481.66

2 Worker

ab -n 100 -c 10 http://10.64.2.2:892/

Request per second : 1794.56

3 Worker

ab -n 100 -c 10 http://10.64.2.2:81/

Request per second : 1996.84

II.   Grafik

Points scored
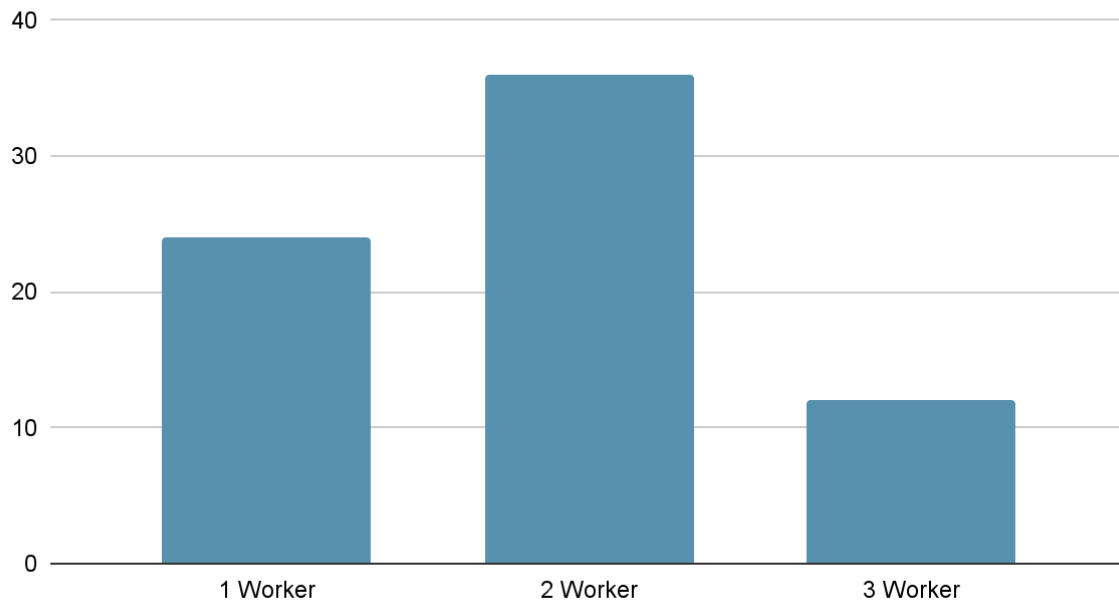
1 Worker 1481.66
2 Worker 1794.56
3 Worker 1996.84

III.   Analisis

Berdasarkan hasil testing menggunakan algoritma Round Robin dengan variasi jumlah worker, kinerja optimal terlihat pada penggunaan 3 worker dengan rata-rata 1996.84 request per second, menunjukkan bahwa peningkatan jumlah worker dapat meningkatkan distribusi beban secara efisien dan maksimal untuk memproses permintaan.
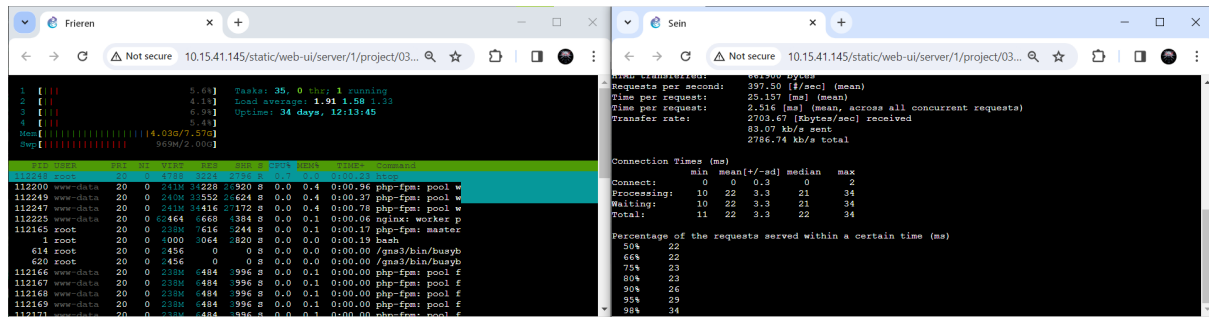
No 15
curl -X POST -H "Content-Type: application/json" -d @register.json
http://riegel.canyon.it01.com/api/auth/register

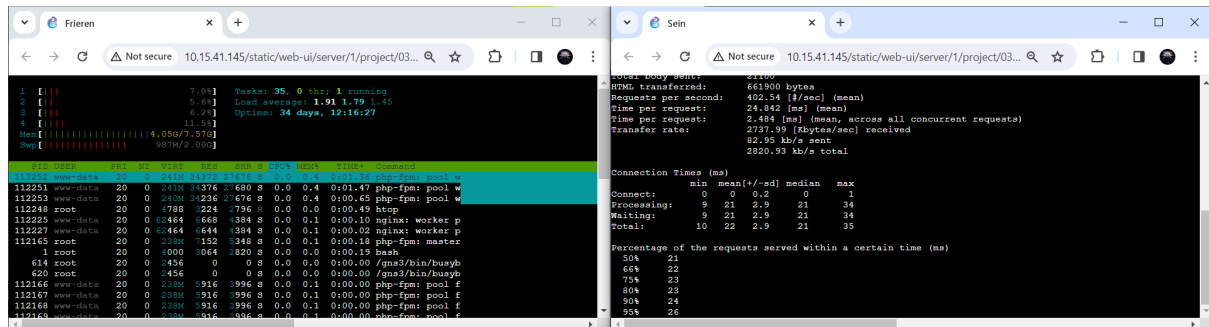ab -n 100 -c 10 -p register.json -T application/json
http://riegel.canyon.it01.com/api/auth/register

No 16

curl -X POST -H "Content-Type: application/json" -d @register.json
http://riegel.canyon.it01.com/api/auth/login

ab -n 100 -c 10 -p register.json -T application/json
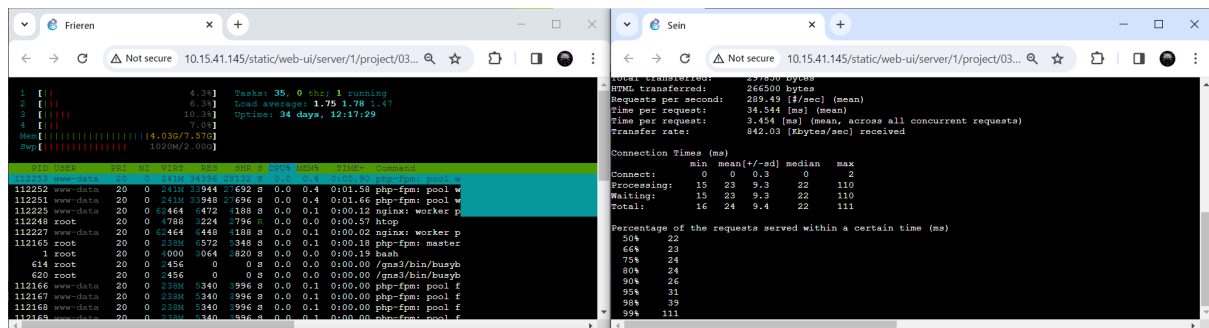http://riegel.canyon.it01.com/api/auth/login

NO 17

curl -H "Authorization: Bearer $(cat token.txt)" http://riegel.canyon.it01.com/api/me

ab -n 100 -c 10 -H "Authorization: Bearer $(cat token.txt)"
http://riegel.canyon.it01.com/api/me

No 19

    I.   **Hasil Testing**

Fpm1

ab -n 100 -c 10 http://10.64.2.2:8191/

RpS = 95.76

Fpm2

ab -n 100 -c 10 http://10.64.2.2:8192/

Rps = 466.57

Fpm3

ab -n 100 -c 10 http://10.64.2.2:8193/
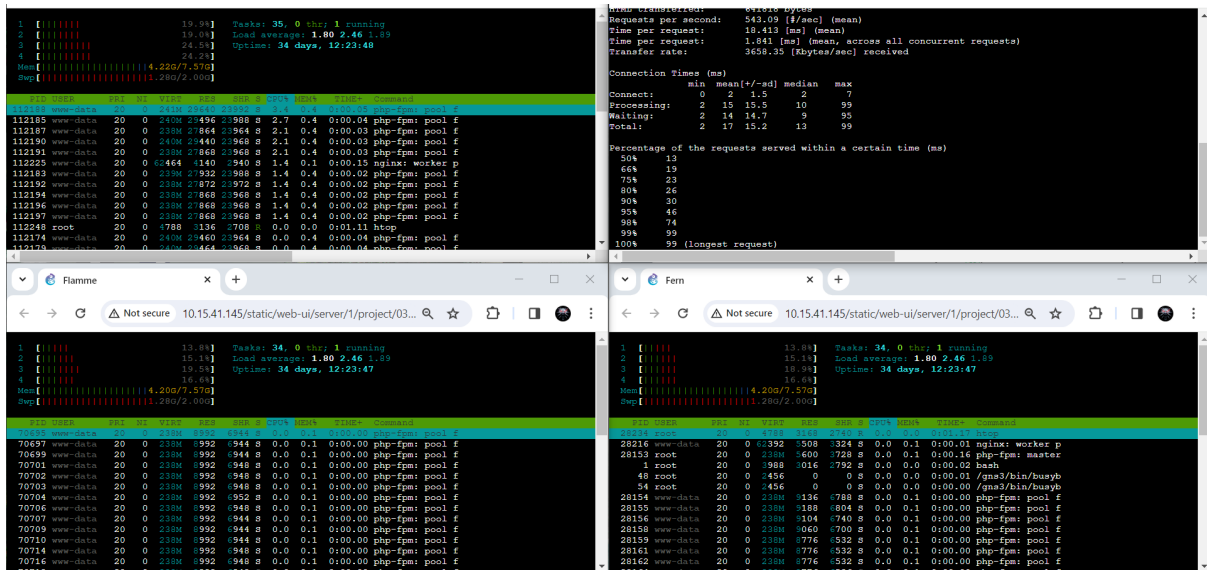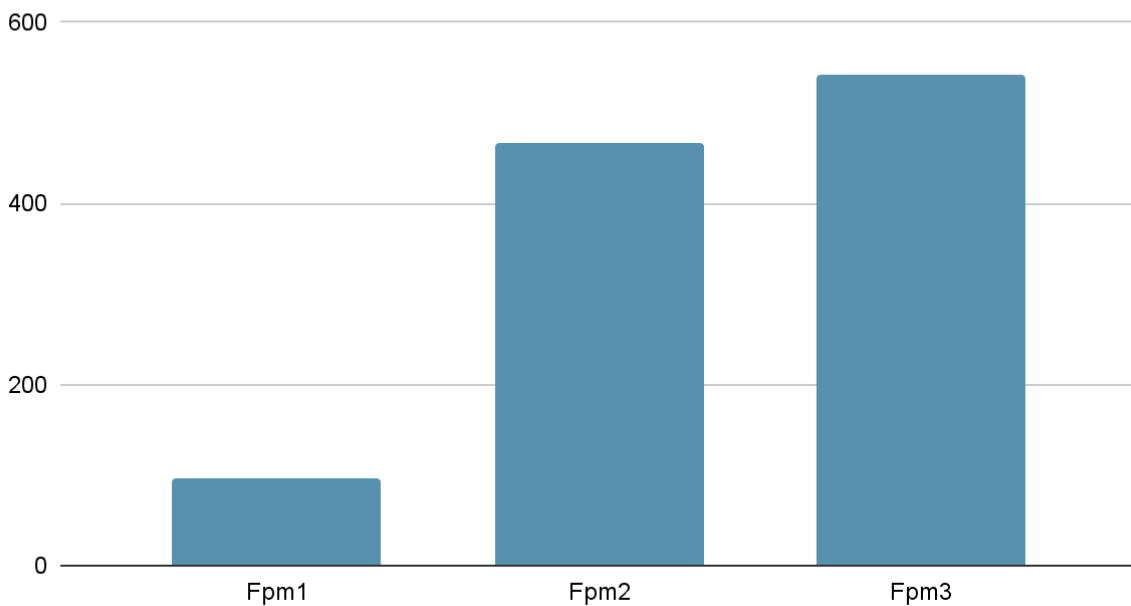
RpS = 543.09

II.   Grafik

Points scored

Fpm1 95.76
Fpm2 466.57
Fpm3 543.09

III.   Analisis

Berdasarkan konfigurasi PHP-FPM pools yang diberikan, kinerja terbaik terlihat pada pool "Fpm3" dengan rata-rata 543.09 request per second, menunjukkan bahwa peningkatan jumlah child processes (pm.max_children) dan alokasi awal

server (pm.start_servers) yang lebih tinggi dapat meningkatkan kapasitas dan responsivitas server secara signifikan.

No 20
ab -n 100 -c 10 http://10.64.2.2:8191/

Rps = 544.97