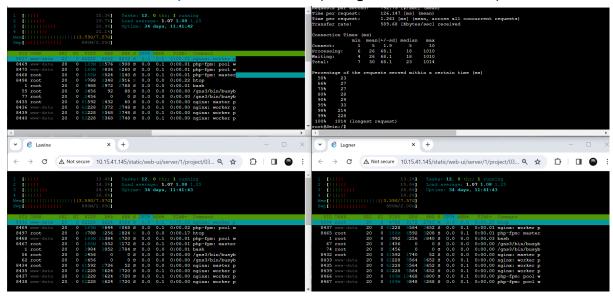
Nomor 7

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

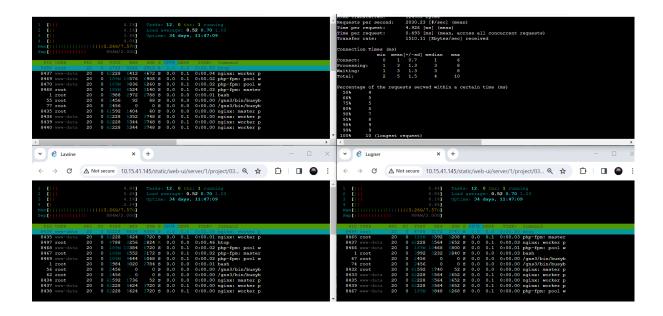


Nomor 8

I. Hasil Testing

Algoritma Round Robin

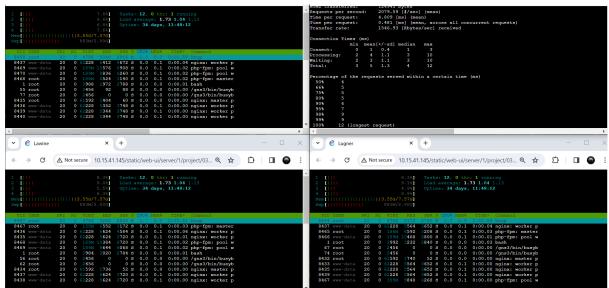
ab -n 200 -c 10 http://10.64.2.2:81/ //No 8 RoundRobin



Request per second : 2030.23

Algoritma weight RoundRobin

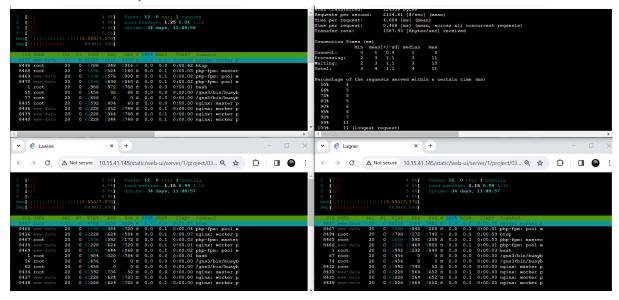
ab -n 200 -c 10 http://10.64.2.2:82/ //No 8 weight RoundRobin



Request per second: 2079.59

Algoritma leastconn

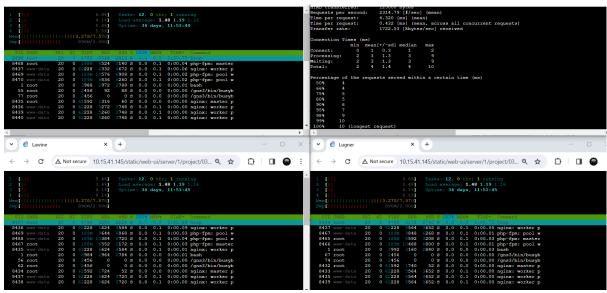
ab -n 200 -c 10 http://10.64.2.2:83/ //No 8 leastconn



Request per second: 2134.81

Algoritma lp Hash

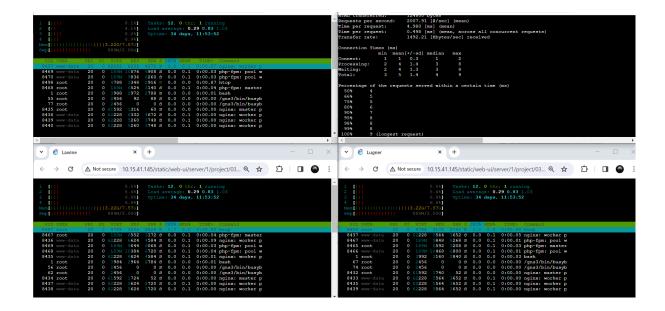
ab -n 200 -c 10 http://10.64.2.2:84/ //No 8 ip_hash



Request per second: 2134.79

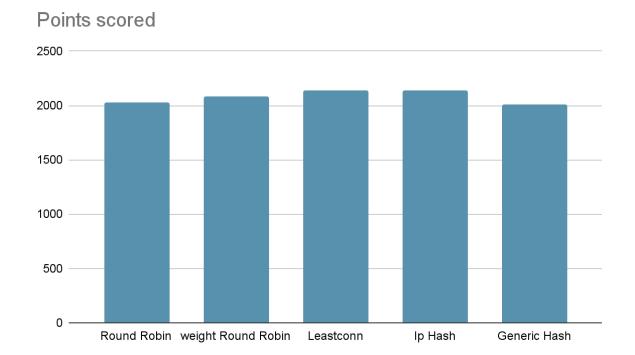
Algoritma Generic Hash

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



Request per second: 2007.91

II. Grafik



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

III. Analisis

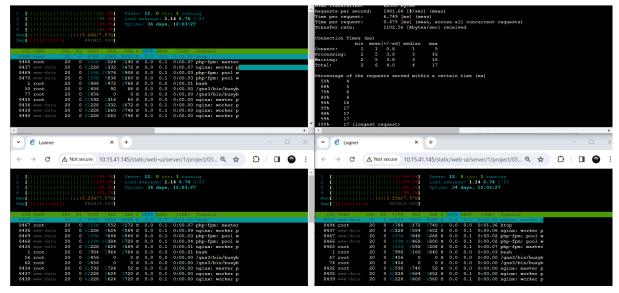
Berdasarkan hasil testing dengan 200 request dan 10 request/second, algoritma Load Balancer "Leastconn" menunjukkan kinerja paling optimal dengan rata-rata 2134.81 request per second, menunjukkan bahwa pendekatan pemilihan server berdasarkan jumlah koneksi terendah memberikan distribusi beban yang efisien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

Nomor 9

I. Hasil Testing (Algoritma Round Robin)

1 Worker

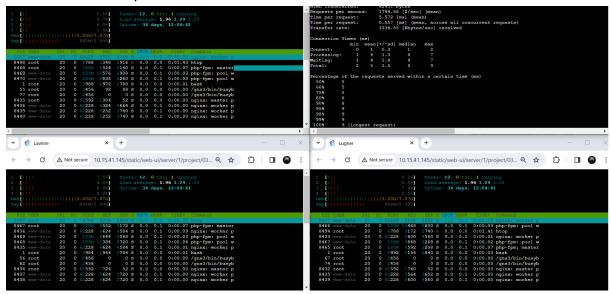
ab -n 100 -c 10 http://10.64.2.2:891/



Request per second: 1481.66

2 Worker

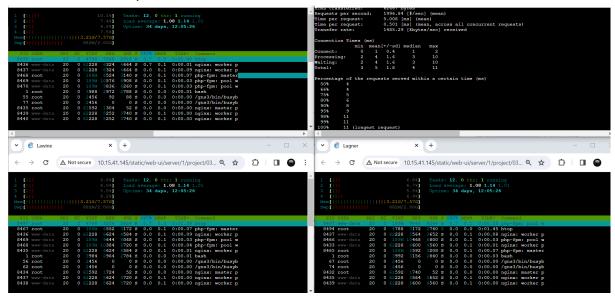
ab -n 100 -c 10 http://10.64.2.2:892/



Request per second: 1794.56

3 Worker

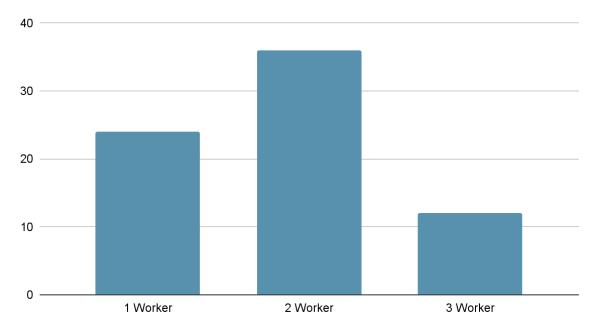
ab -n 100 -c 10 http://10.64.2.2:81/



Request per second: 1996.84

II. Grafik

Points scored



- 1 Worker 1481.66
- 2 Worker 1794.56
- 3 Worker 1996.84

III. Analisis

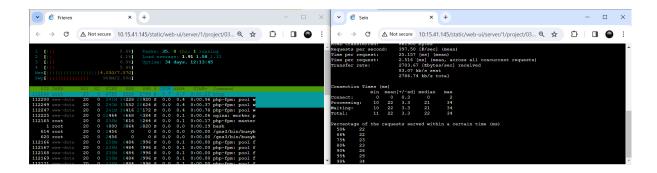
Berdasarkan hasil testing menggunakan algoritma Round Robin dengan variasi jumlah worker, kinerja optimal terlihat pada penggunaan 3 worker dengan rata-rata 1996.84 request per second, menunjukkan bahwa peningkatan jumlah worker dapat meningkatkan distribusi beban secara efisien dan maksimal untuk memproses permintaan.

No 15

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

http://riegel.canyon.it01.com/api/auth/registerlication/json" -d @register.json h {"user":{"username":"tesit01","updated_at":"2023-11-16T14:03:21.0000002","created_at":"2023-11-16T14:03: xLmNvbS9hcGkvYXV0aC9yZWdpc3RlciIsImlhdCI6MTcwMDE0MzQwMSwiZXhwIjoxNzAwMTQ3MDAxLCJuYmYi0jE3MDAxNDM0MDEsImp .Gajg_4qdYxTyel7GoPebBM4Tstt1wKlS2i0haPhldMo"}root@Sein:/#

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

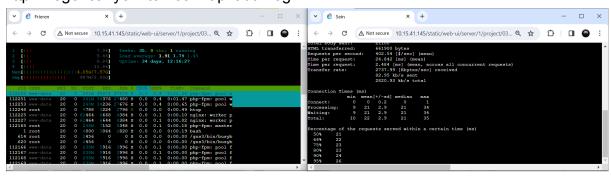


No 16

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

```
nttp://riegel.canyon.it01.com/api/auth/loginapplication/json" -d @register.json h
{"token":"eyJ0eXAi0iJKV1QiLCJhbGci0iJIUzI1NiJ9.eyJpc3Mi0iJodHRw0i8vcmllZ2VsLmNhbnlvbi5pdDAxLmNvbS9hcGkvY.
xsZVoiLCJzdWIi0iIxIiwicHJ2IjoiMjNiZDVjODk0OWY2MDBhZGIzOWU3MDFjNDAwODcyZGI3YTU5NzZmNyJ9.7okWyeb42n67B3Uzh
```

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

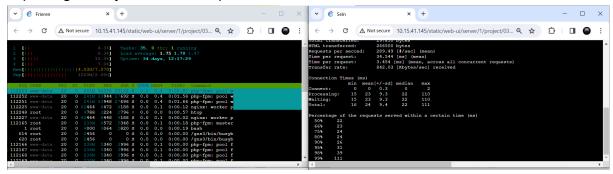


NO 17

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

```
on.it01.com/api/me-H "Authorization: Bearer $ (cat token.txt)" http://riegel.canyo
{"id":1,"username":"tesit01","created_at":"2023-11-16T14:03:21.000000Z","updated_at":"2023-11-16T14:03:2
```

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

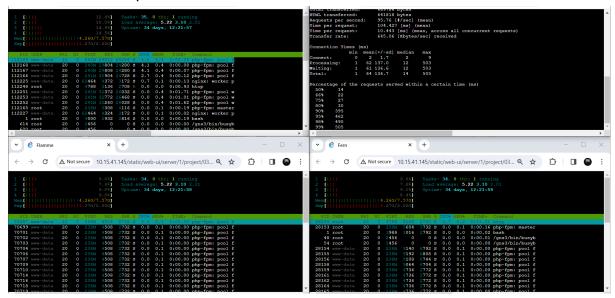


No 19

I. Hasil Testing

Fpm1

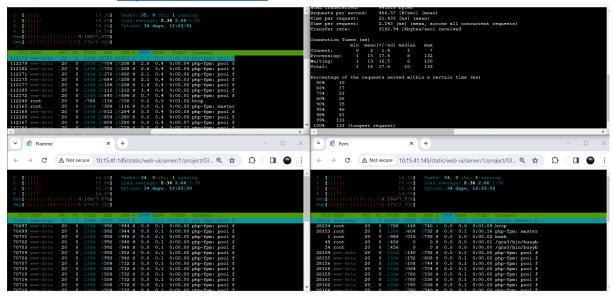
ab -n 100 -c 10 http://10.64.2.2:8191/



RpS = 95.76

Fpm2

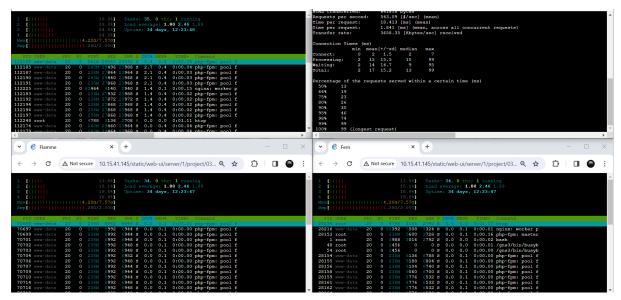
ab -n 100 -c 10 http://10.64.2.2:8192/



Rps = 466.57

Fpm3

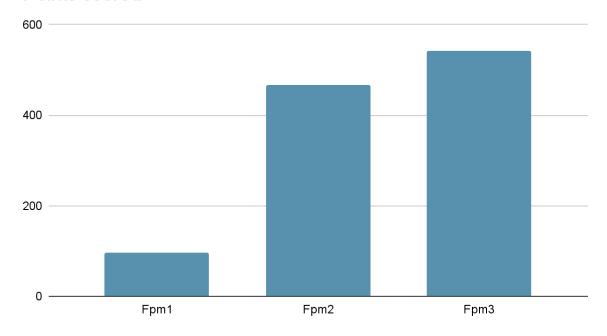
ab -n 100 -c 10 http://10.64.2.2:8193/



RpS = 543.09

II. Grafik





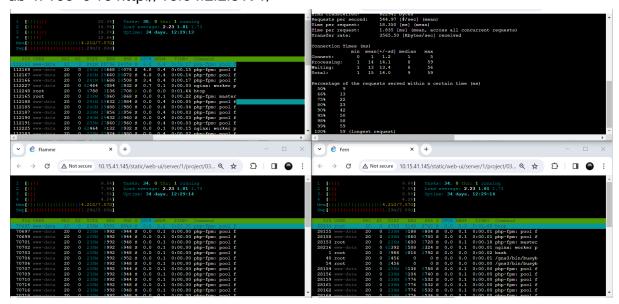
Fpm1 95.76 Fpm2 466.57 Fpm3 543.09

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