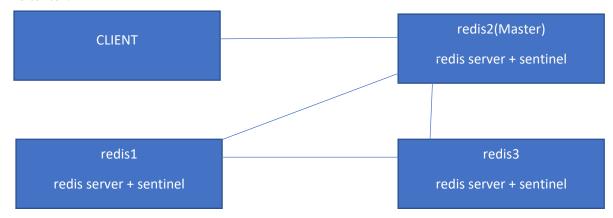
Implementasi Redis Cluster

Nama: Dhafa Hikmawan

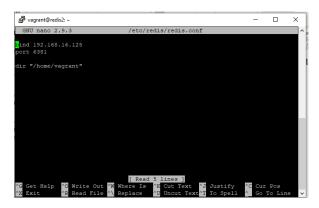
NRP: 05111640000124

Arsitektur:

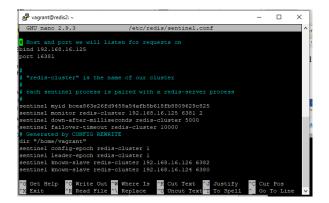


Tahapan:

- 1. Buat Konfigurasi vagrant, tertera di folder vagrant/redis/Vagrantfile
- 2. Jalankan "vagrant up"
- 3. Install redis server dan redis sentinel pada setiap node
- 4. Konfigurasi redis:
 - a. Node1:
 - i. A

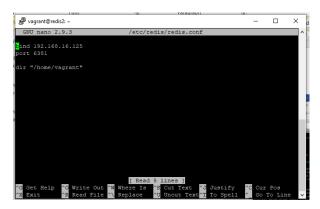


ii. A

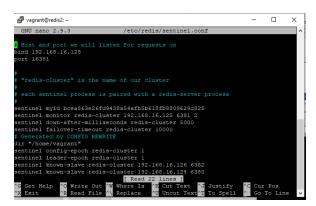


b. Node2:

i. A

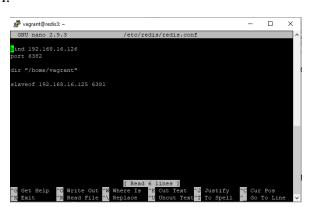


ii. A

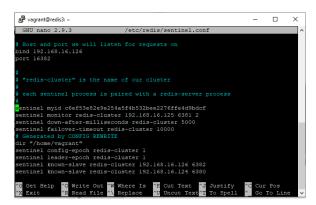


c. Node3:

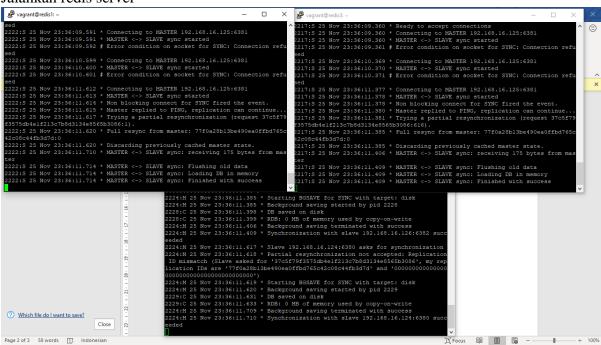
i.



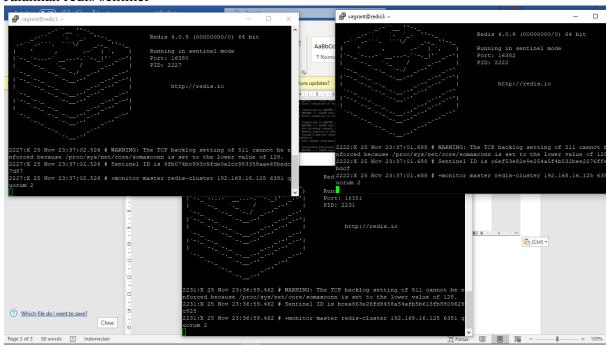
ii.



5. Jalankan redis server

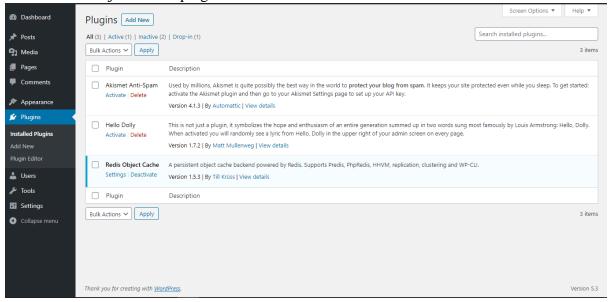


6. Jalankan redis sentinel



Wordpress:

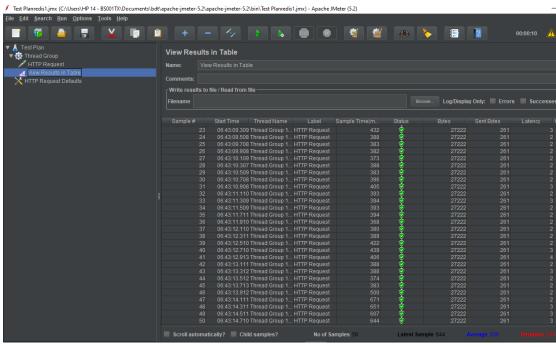
- 1. Install wordpress pada server
- 2. Install Redis Object Cache plugin



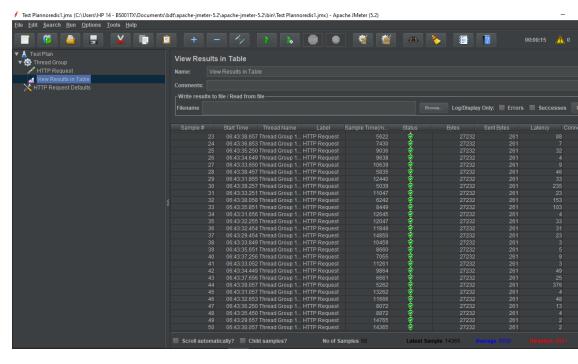
3. Konfigurasi wordpress

Testing:

- 1. Jmeter
 - a. 50
- i. Redis

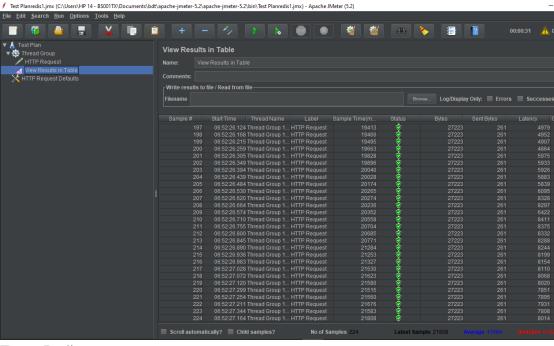


ii. Tanpa Redis

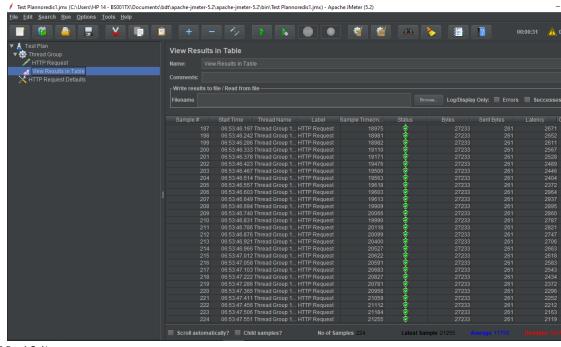


b. 224(100+124)

i. Redis

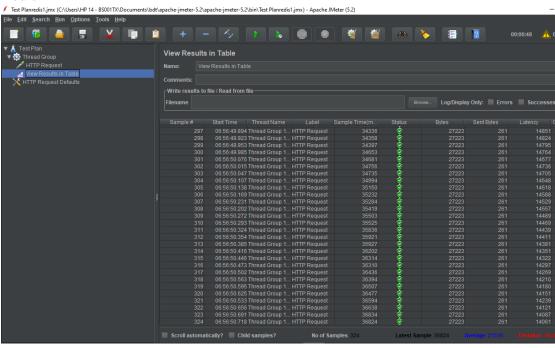


ii. Tanpa Redis

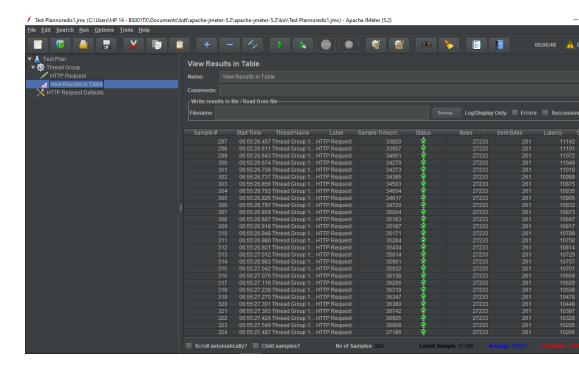


c. 324(200+124)

i. Redis



ii. Tanpa Redis



Kesimpulan: Redis lebih cepat

2. Failover

a. Master dimatikan

```
wagrant@redis2:-@ redis-cli -h 192.168.16.125 -p 6381 debug segfault

Error: Server closed the connection

vagrant@redis2:-5
```

b. Cek master baru, master baru telah terpilih

c. Nyalakan kembali master lama

```
2251:S 26 Nov 00:03:32.847 * Before turning into a slave, using my master parame ters to synthesize a cached master: I may be able to synchronize with the new master with just a partial transfer.

2251:S 26 Nov 00:03:32.848 * SLAVE OF 192.168.16.126:6382 enabled (user request from 'id-3 addr-192.168.16.126:3307 fd-7 name-sentinel-ofef55e0-cmd age=10 idle '0 flags-w db-0 sub-0 psub-0 multi-3 qbuf-0 gbuf-free=3768 obl-36 oll=0 omem-0 events=r cmd=exec')
2251:S 26 Nov 00:03:32.849 $ Connecting to MASTER 192.168.16.126:6382
2251:S 26 Nov 00:03:33.299 * MASTER <>> SLAVE May sync started
2251:S 26 Nov 00:03:33.299 * MASTER <>> SLAVE May sync started
2251:S 26 Nov 00:03:33.299 * Master replied to PING, replication can continue...
2251:S 26 Nov 00:03:33.293 * Master replied to PING, replication can continue...
2251:S 26 Nov 00:03:33.309 * Master replied to PING, replication (request 4380288 54028e-942506af64af7655b867be-241).
2251:S 26 Nov 00:03:33.300 * Full resync from master: d26c3df8b6c446d40f578cbdf9 ffc-c889161889:42e09
2251:S 26 Nov 00:03:33.371 * MASTER <-> SLAVE sync: Flushing old data
2251:S 26 Nov 00:03:33.374 * MASTER <-> SLAVE sync: Flushing DB in memory
2251:S 26 Nov 00:03:33.374 * MASTER <-> SLAVE sync: Finished with success
```

d. Cek master sekarang

