PEMROGRAMAN JARINGAN

TUGAS 9 : PERFORMANCE TEST

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SEMESTER GENAP

TAHUN PELAJARAN 2019/2020

TUGAS 9

1. Pull update terakhir
2. Jalankan kedua model tersebut
    a. Server_async_http.py di port 45000
    b. Server_thread_http.py di port 46000
3. Ujicobalah dengan apache benchmark untuk 1000 request dan konkurensi yang bervariasi
4. Buatlah tabel untuk melaporkan hasilnya

Jawaban:

1. Server_async_http.py Port 45000

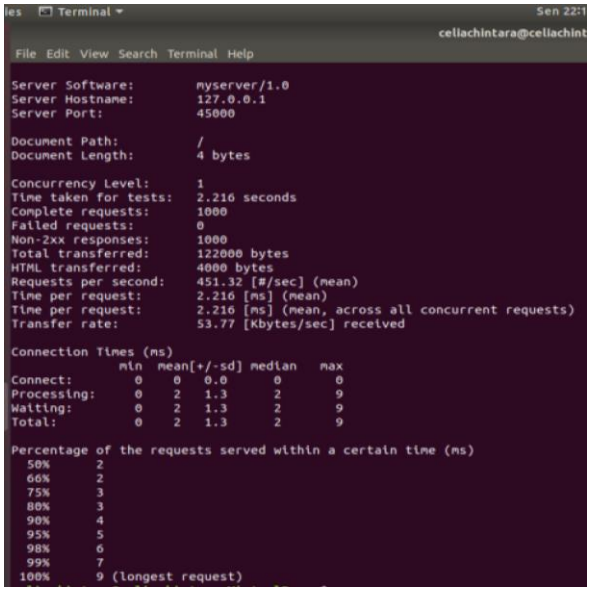
Jumlah Request : 1000

Konkurensi Level : 1, 5, 10, 15, 50, 100

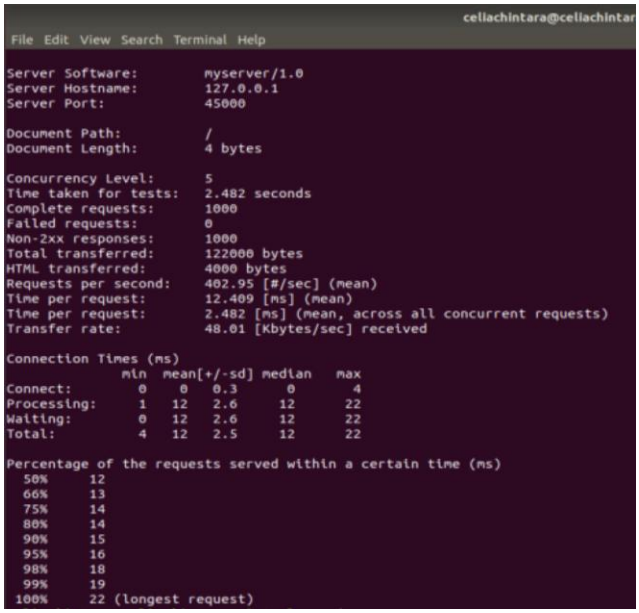
No test	Concurrency Level	Time taken for test (second)	Complete request	Failed request	Total transferred (bytes)	Request per second [#/sec]	Time per request [ms]	Transfer rate [Kbytes/sec]
1	1	2.216	1000	0	122000	451.32	2.216	53.77
2	5	2.482	1000	0	122000	402.95	2.482	48.01
3	10	2.646	1000	0	122000	377.99	2.646	45.03
4	15	1.904	1000	0	122000	525.09	1.904	62.56
5	50	14.307	1000	0	122000	69.89	14.307	8.33
6	100	55.941	1000	0	122000	17.88	55.941	2.13

Screenshot:

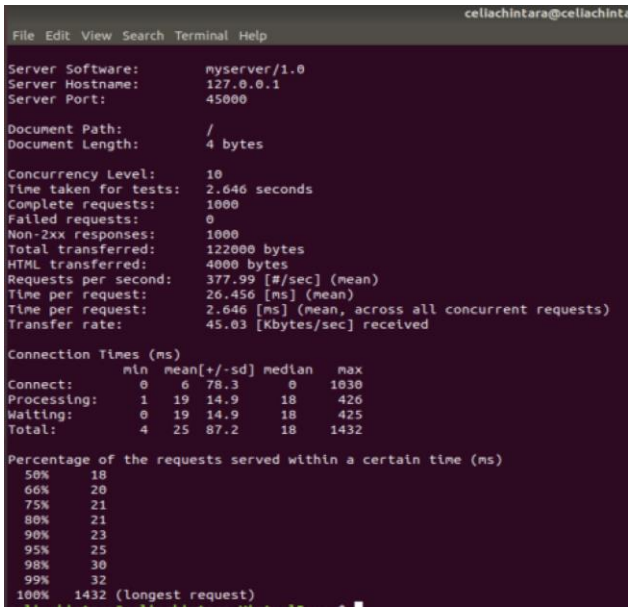
Konkurensi Level 1



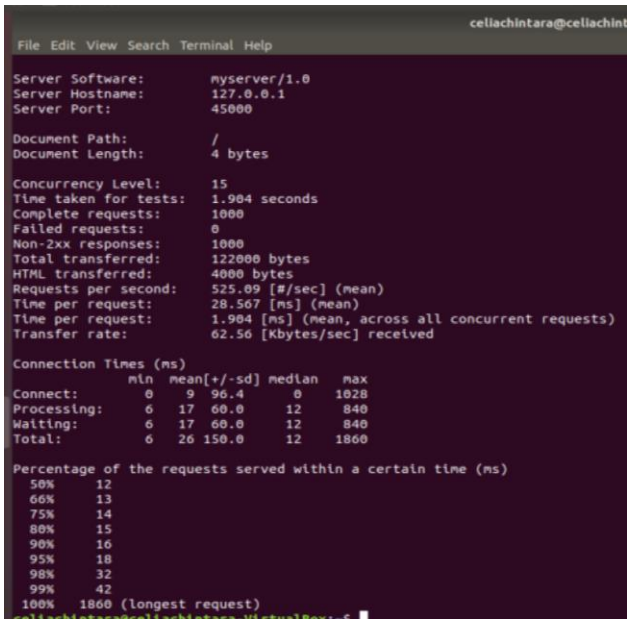
Konkurensi Level 5



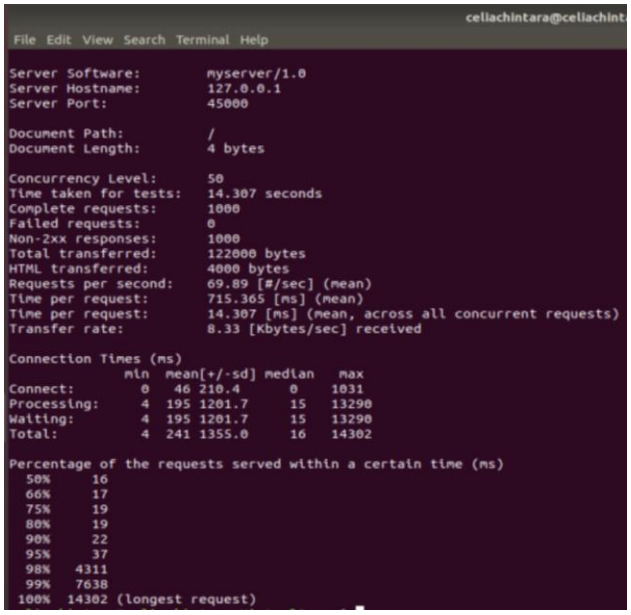
Konkurensi Level 10



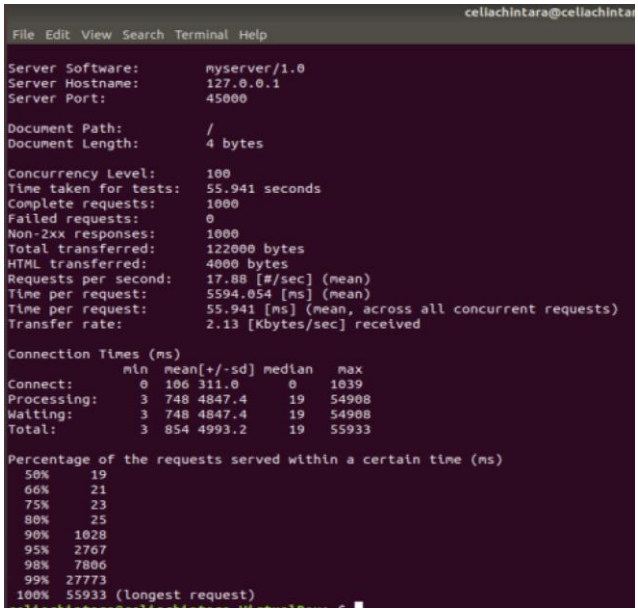
Konkurensi Level 15



Konkurensi Level 50



Konkurensi Level 100



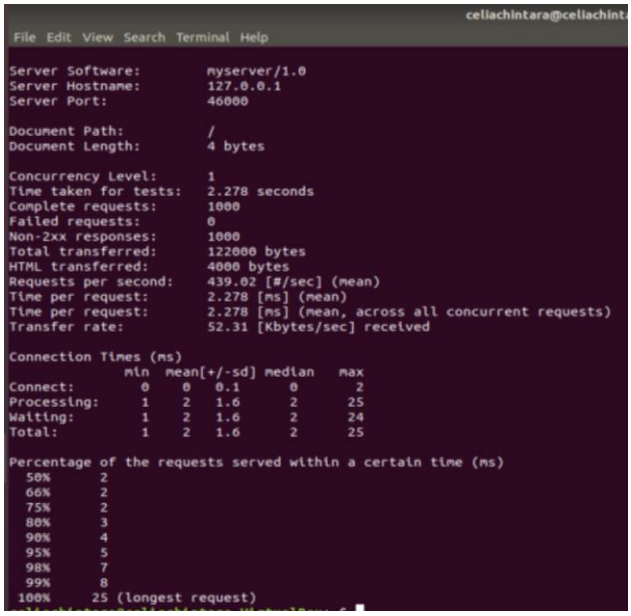
2. Server_thread_http.py Port 46000

Jumlah Request : 1000

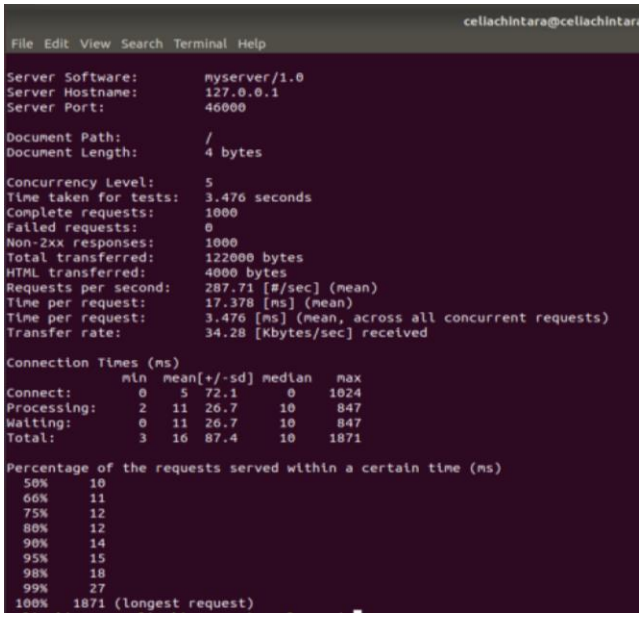
Konkurensi Level : 1, 5, 10, 15, 50, 100

No test	Concurrency Level	Time taken for test (second)	Complete request	Failed request	Total transferred (bytes)	Request per second [#/sec]	Time per request [ms]	Transfer rate [Kbytes/sec]
1	1	2.278	1000	0	122000	439.02	2.278	52.31
2	5	3.476	1000	0	122000	287.71	3.476	34.28
3	10	3.486	1000	0	122000	286.88	3.486	34.18
4	15	3.865	1000	0	122000	258.76	3.865	30.83
5	50	7.806	1000	0	122000	128.11	7.806	15.26
6	100	4.372	1000	0	122000	228.74	4.372	27.25

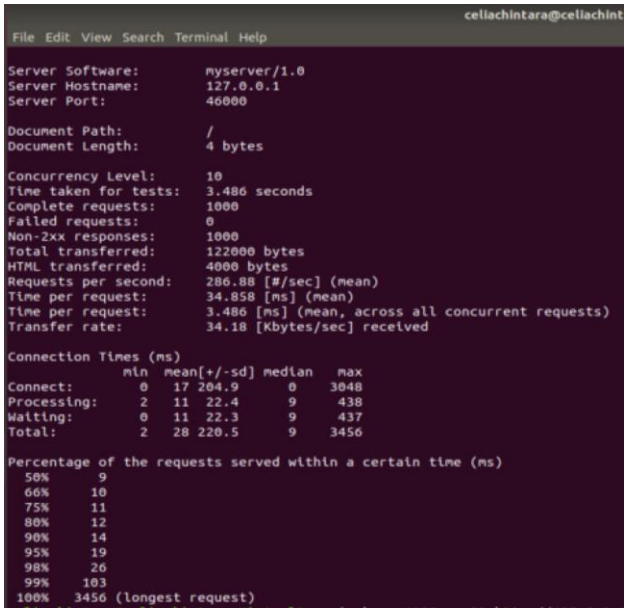
Konkurensi Level 1



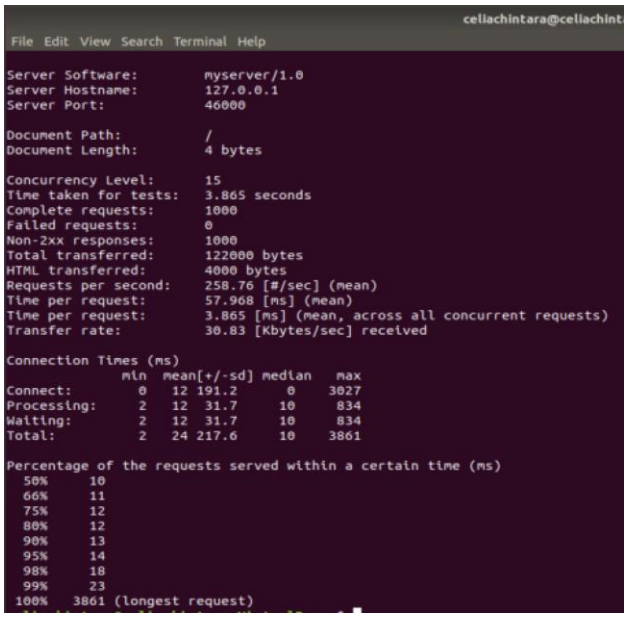
Konkurensi Level 5



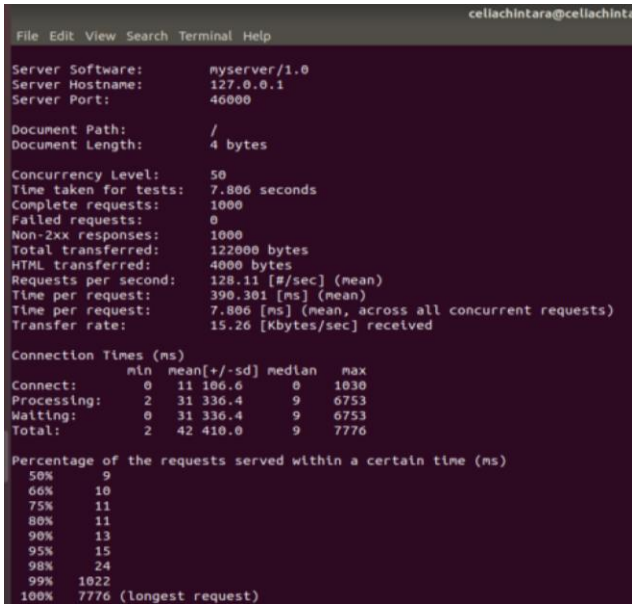
Konkurensi Level 10



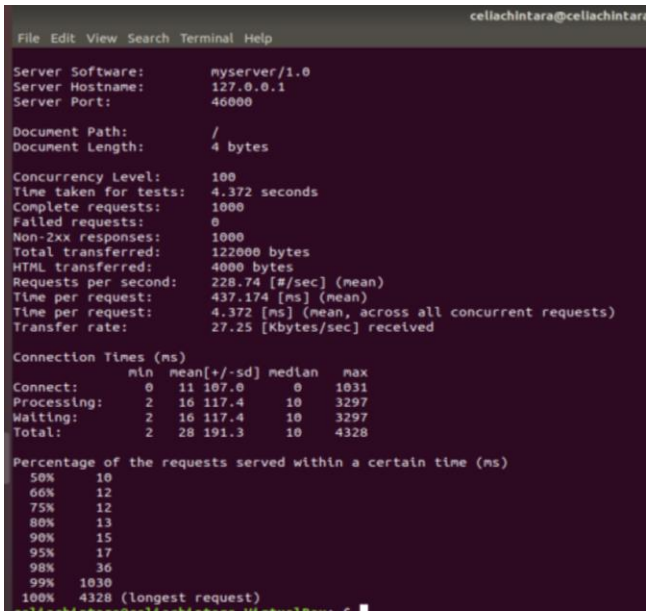
Konkurensi Level 15



Konkurensi Level 50



Konkurensi Level 100



3. Kesimpulan

Dari hasil performance test pada server async dan server thread, dapat dilihat dari hasil yang tertera di kedua table diatas bahwa server async memiliki performa yang lebih baik dari pada server thread sehingga server async dapat bekerja lebih cepat dibandingkan server thread.