# Laporan Tugas 9



Pemrograman Jaringan B

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2020

#### A. Parameter Test

Jumlah Request: 1000

Konkurensi: 1, 5, 10, 25, 50, 75 100

### **B.** Hasil Performance Test

### 1. Asynchronous Server

| No. | Concurrency<br>Level | Time Taken<br>For Rest | Complete<br>Request | Failed<br>Request | Total<br>Transferred | Request<br>per | Time<br>per | Transfer<br>Rate |
|-----|----------------------|------------------------|---------------------|-------------------|----------------------|----------------|-------------|------------------|
|     |                      | (seconds)              | -                   |                   |                      | second         | request     |                  |
|     |                      |                        |                     |                   |                      | (#/sec)        | (ms)        |                  |
| 1   | 1                    | 5.988                  | 1000                | 0                 | 122000               | 166.99         | 5.988       | 19.90            |
| 2   | 5                    | 4.251                  | 1000                | 0                 | 122000               | 235.25         | 4.251       | 28.03            |
| 3   | 10                   | 4.385                  | 1000                | 0                 | 122000               | 228.07         | 4.385       | 27.17            |
| 4   | 25                   | 4.462                  | 1000                | 0                 | 122000               | 224.11         | 4.462       | 26.70            |
| 5   | 50                   | 3.867                  | 1000                | 0                 | 122000               | 258.59         | 3.867       | 30.81            |
| 6   | 75                   | 4.532                  | 1000                | 0                 | 122000               | 339.870        | 4.532       | 26.29            |
| 7   | 100                  | 4.027                  | 1000                | 0                 | 122000               | 248.34         | 4.027       | 29.59            |

### 2. Threaded Server

| No. | Concurrency<br>Level | Time Taken<br>For Rest<br>(seconds) | Complete<br>Request | Failed<br>Request | Total<br>Transferred | Request<br>per<br>second<br>(#/sec) | Time<br>per<br>request<br>(ms) | Transfer<br>Rate |
|-----|----------------------|-------------------------------------|---------------------|-------------------|----------------------|-------------------------------------|--------------------------------|------------------|
| 1   | 1                    | 684.702                             | 1000                | 0                 | 122000               | 1.46                                | 684.702                        | 0.17             |
| 2   | 5                    | 188.797                             | 1000                | 0                 | 122000               | 5.30                                | 188.797                        | 0.63             |
| 3   | 10                   | 194.726                             | 1000                | 0                 | 122000               | 5.14                                | 194.726                        | 0.61             |
| 4   | 25                   | 200.788                             | 1000                | 0                 | 122000               | 4.98                                | 200.788                        | 0.59             |
| 5   | 50                   | 186.588                             | 1000                | 0                 | 122000               | 5.36                                | 186.588                        | 0.64             |
| 6   | 75                   | 209.421                             | 1000                | 0                 | 122000               | 4.78                                | 209.421                        | 0.57             |
| 7   | 100                  | 198.006                             | 1000                | 0                 | 122000               | 5.05                                | 198.066                        | 0.6              |

# C. Kesimpulan

Berdasarkan hasil tes di atas, dapat dilihat bahwa asynchronous server dapat memproses lebih cepat dibandingkan Thread Server

### D. Dokumentasi

# a. Apache Benchmark Asynchronous 1000 request

```
PromiseMIJDAMMAIM-LAPTOP:/mst/d/l Rana/2020/1 Kulian/Progjar/Tugas/Tugas 9$ ab -n 1000 -c 1 http://127.0.0.1:45000/
This is ApacheBench, Version 2.3 cSRevision: 1807734 $>
Copyright 1905 Adam Taiks, Zeus Iechnology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 127.0.0.1 (be patient)
Completed 1808 requests
Completed 1808 requests
Completed 3808 requests
Completed 3808 requests
Completed 5808 requests
Completed 5808 requests
Completed 5808 requests
Completed 980 requests
Finished 18008 request
```

```
| This is ApacheBerch, Version 2.3 (Servision: 189734 Servision: 1
```

```
memsing#illowable* LaPUPD** person*/2* Rome/2020/1 Vullan/Program/Tugas/Tugas/Tugas 9$ ab -n 1000 -c 25 http://127.0.0.1:45000/
This is ApacheBench, Version 2.3 cSRevision: 1807734 $5

This is ApacheBench, Version 2.3 cSRevision: 1807734 $5

Benchmarking 127.0.0.1 (be patient)
Completed 100 requests
Completed 200 requests
Completed 200 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 600 requests
Completed 500 requests
Completed 1000 requests

Server Bottime

27.0.0.1

Server Bottime

127.0.0.1

Server Bottime

127.0.0.1

Server Bottime

128.0.0

Server Bottime

129.0.0.1

Server Bottime

120.0.0

S
```

# b. Apache Benchmark Thread 1000 request

```
| None |
```

```
numis@RIJDAMMAIN.LATOP:/mnt/d/R #ama/2020/1 Kullah/Proglar/lugas/Tugas 95 sudo ab -n 1000 -c 75 -r -k -s 999999 http://127.0.0.1:46000/
fluis is Appendence. Version 2.3 SERVIZION: 1807/24 55
fluis is Appendence. Version 2.3 SERVIZI
```

```
mmsiaght30AMARATH-LAPTOS; cnt/d/1 Rana/2020/1 kullsh/Proglsr/lugas/Tugas 9$ sudo ab -n 1000 -c 100 -r -k -s 999999 http://127.0.0.1:146000/
gsudo password for namals:
orany, try again.
This is ApacheBench, version 2.3 c$Revision: 1807734 $>
copyright 1906 Adan Nuisz, 2eus Technology (td, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.zeustech.net/
Completed 1000 requests
completed 1000 requests
completed 300 requests
completed 1000 requests

Server Nostname:

Server Nostname:

Server Nostname:

Server Nostname:

Server Nostname:

127.0.0.1

Server Nostname:

127.0.0.1

Server Nostname:

1000
Document Path:

/ bytes

Concurrancy Level:

100

Nostron Path:

/ bytes

Concurrancy Level:

100

Nostron Path:

100

Nostron Path:
```