

PERFORMANCE TEST



PEMROGRAMAN JARINGAN - B

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2020

A. Parameter Test

Nomor	Jumlah request	Konkurensi
1	10	1,5,10
2	50	1,10,30,50
3	100	1,10,50,100

B. Hasil Performace Test

No test	Concurrency level	Time taken for test	Complete request	Failed request	Total transferred	Request per second	Time per request	Transf er rate
1a	1	0.277 seconds	10	0	1360 bytes	36.11 [#/sec]	27.691 [ms]	4.80 [Kbytes /sec]
1b	5	2.049 seconds	10	0	1360 bytes	4.88 [#/sec]	204.882 [ms]	0.65 [Kbytes /sec]
1c	10	2.048 seconds	10	0	1360 bytes	4.88 [#/sec]	204.782 [ms]	0.65 [Kbytes /sec]
2a	1	2.461 seconds	50	0	6800 bytes	20.31 [#/sec]	49.225 [ms]	2.70 [Kbytes /sec]
2b	10	12.293 seconds	50	0	6800 bytes	4.07 [#/sec]	245.860 [ms]	0.54 [Kbytes /sec]
2c	30	12.856 seconds	50	0	6800 bytes	3.89 [#/sec]	257.112 [ms]	0.52 [Kbytes /sec]
2d	50	12.333 seconds	50	0	6800 bytes	4.05 [#/sec]	246.660 [ms]	0.54 [Kbytes /sec]
3a	1	12.015 seconds	100	0	13600 bytes	8.32 [#/sec]	120.151 [ms]	1.11 [Kbytes /sec]
3b	10	24.881 seconds	100	0	13600 bytes	4.02 [#/sec]	248.807 [ms]	0.53 [Kbytes /sec]
3c	50	25.096 seconds	100	0	13600 bytes	3.98 [#/sec]	250.956 [ms]	0.53 [Kbytes /sec]
3d	100	24.783 seconds	100	0	13600 bytes	4.04 [#/sec]	247.828 [ms]	0.54 [Kbytes /sec]

C. Capture Performance Test

1. Parameter 1a

```
C:\xampp\apache\bin>ab -n 10 -c 1 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 127.0.0.1 (be patient).....done

Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    1
Time taken for tests:  0.277 seconds
Complete requests:    10
Failed requests:       0
Total transferred:    1360 bytes
HTML transferred:     240 bytes
Requests per second:  36.11 [#/sec] (mean)
Time per request:      27.691 [ms] (mean)
Time per request:      27.691 [ms] (mean, across all concurrent requests)
Transfer rate:         4.80 [Kbytes/sec] received

Connection Times (ms)
              min   mean[+/-sd] median   max
Connect:        0    1   3.4      0     11
Processing:      3   22  20.8     10     59
Waiting:         3   21  20.0     10     54
Total:           3   23  20.5     21     59

Percentage of the requests served within a certain time (ms)
 50%    21
 66%    31
 75%    41
 80%    49
 90%    59
 95%    59
 98%    59
 99%    59
100%    59 (longest request)
```

2. Parameter 1b

```
C:\xampp\apache\bin>ab -n 10 -c 5 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
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Benchmarking 127.0.0.1 (be patient).....done

Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    5
Time taken for tests:  2.049 seconds
Complete requests:    10
Failed requests:       0
Total transferred:    1360 bytes
HTML transferred:     240 bytes
Requests per second:  4.88 [#/sec] (mean)
Time per request:      1024.411 [ms] (mean)
Time per request:      204.882 [ms] (mean, across all concurrent requests)
Transfer rate:         0.65 [Kbytes/sec] received

Connection Times (ms)
              min   mean[+/-sd] median   max
Connect:        0  201 259.3      1    503
Processing:     15  757 349.9    1004   1005
Waiting:        10  706 417.8    1004   1005
Total:          503  958 365.6    1004   1507

Percentage of the requests served within a certain time (ms)
 50%   1004
 66%   1005
 75%   1005
 80%   1506
 90%   1507
 95%   1507
 98%   1507
 99%   1507
100%   1507 (longest request)
```

3. Parameter 1c

```

C:\xampp\apache\bin>ab -n 10 -c 10 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
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Benchmarking 127.0.0.1 (be patient).....done


Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    10
Time taken for tests:  2.048 seconds
Complete requests:    10
Failed requests:       0
Total transferred:    1360 bytes
HTML transferred:     240 bytes
Requests per second:  4.88 [#/sec] (mean)
Time per request:     2047.822 [ms] (mean)
Time per request:     204.782 [ms] (mean, across all concurrent requests)
Transfer rate:        0.65 [Kbytes/sec] received


Connection Times (ms)
              min   mean[+/-sd] median   max
Connect:        0    201 259.0      1     502
Processing:    10   1208  718.9    1505   2033
Waiting:        7   1007  743.2    1003   2007
Total:         502   1409  618.2    1505   2034


Percentage of the requests served within a certain time (ms)
 50%    1505
 66%    2007
 75%    2007
 80%    2008
 90%    2034
 95%    2034
 98%    2034
 99%    2034
100%    2034 (longest request)

```

4. Parameter 2a

```

C:\xampp\apache\bin>ab -n 50 -c 1 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
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Benchmarking 127.0.0.1 (be patient).....done


Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    1
Time taken for tests:  2.461 seconds
Complete requests:    50
Failed requests:       0
Total transferred:    6800 bytes
HTML transferred:     1200 bytes
Requests per second:  20.31 [#/sec] (mean)
Time per request:     49.225 [ms] (mean)
Time per request:     49.225 [ms] (mean, across all concurrent requests)
Transfer rate:        2.70 [Kbytes/sec] received


Connection Times (ms)
              min   mean[+/-sd] median   max
Connect:        0      0   0.5      0      1
Processing:      9    49  52.2     34    353
Waiting:        8    42  49.4     34    327
Total:          9    49  52.2     35    353


Percentage of the requests served within a certain time (ms)
 50%     35
 66%     52
 75%     57
 80%     61
 90%     67
 95%     86
 98%    353
 99%    353
100%    353 (longest request)

```

5. Parameter 2b

```

C:\xampp\apache\bin>ab -n 50 -c 10 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
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Benchmarking 127.0.0.1 (be patient).....done


Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    10
Time taken for tests:  12.293 seconds
Complete requests:    50
Failed requests:       0
Total transferred:    6800 bytes
HTML transferred:     1200 bytes
Requests per second:  4.07 [#/sec] (mean)
Time per request:      2458.601 [ms] (mean)
Time per request:      245.860 [ms] (mean, across all concurrent requests)
Transfer rate:          0.54 [Kbytes/sec] received


Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0   241 253.1      1    503
Processing:    151 2051 561.2    2008   2511
Waiting:        99 1209 598.4    1005   2010
Total:          501 2292 507.2    2507   2511


Percentage of the requests served within a certain time (ms)
 50%    2507
 66%    2508
 75%    2508
 80%    2508
 90%    2511
 95%    2511
 98%    2511
 99%    2511
100%    2511 (longest request)

```

6. Parameter 2c

```

C:\xampp\apache\bin>ab -n 50 -c 30 http://127.0.0.1:10001/
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Benchmarking 127.0.0.1 (be patient).....done


Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    30
Time taken for tests:  12.856 seconds
Complete requests:    50
Failed requests:       0
Total transferred:    6800 bytes
HTML transferred:     1200 bytes
Requests per second:  3.89 [#/sec] (mean)
Time per request:      7713.366 [ms] (mean)
Time per request:      257.112 [ms] (mean, across all concurrent requests)
Transfer rate:          0.52 [Kbytes/sec] received


Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0   251 273.0      1   1003
Processing:    185 5217 2475.5    6527   8029
Waiting:       120 3257 2034.9    3013   7527
Total:          502 5468 2462.6    6527   8029


Percentage of the requests served within a certain time (ms)
 50%    6527
 66%    7528
 75%    7530
 80%    7530
 90%    7648
 95%    8029
 98%    8029
 99%    8029
100%    8029 (longest request)

```

7. Parameter 2d

```
C:\xampp\apache\bin>ab -n 50 -c 50 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
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Benchmarking 127.0.0.1 (be patient).....done


Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    50
Time taken for tests:  12.333 seconds
Complete requests:    50
Failed requests:       0
Total transferred:    6800 bytes
HTML transferred:     1200 bytes
Requests per second:  4.05 [#/sec] (mean)
Time per request:     12332.982 [ms] (mean)
Time per request:     246.660 [ms] (mean, across all concurrent requests)
Transfer rate:        0.54 [Kbytes/sec] received


Connection Times (ms)
              min   mean[+/-sd] median   max
Connect:        0   241 253.0      1     502
Processing:    88 6264 3647.3    6519  12242
Waiting:       72 6022 3643.0    6016  12032
Total:         504 6505 3622.7    6519  12242


Percentage of the requests served within a certain time (ms)
 50%    6519
 66%    8524
 75%    9527
 80%   10530
 90%   11532
 95%   12032
 98%   12242
 99%   12242
100%   12242 (longest request)
```

8. Parameter 3a

```
C:\xampp\apache\bin>ab -n 100 -c 1 http://127.0.0.1:10001/
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Benchmarking 127.0.0.1 (be patient).....done


Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    1
Time taken for tests:  12.015 seconds
Complete requests:    100
Failed requests:       0
Total transferred:    13600 bytes
HTML transferred:     2400 bytes
Requests per second:  8.32 [#/sec] (mean)
Time per request:     120.151 [ms] (mean)
Time per request:     120.151 [ms] (mean, across all concurrent requests)
Transfer rate:        1.11 [Kbytes/sec] received


Connection Times (ms)
              min   mean[+/-sd] median   max
Connect:        0     0   0.4      0      1
Processing:    21  120  60.9    106    372
Waiting:       21  108  59.4     95    365
Total:         21  120  61.0    107    373


Percentage of the requests served within a certain time (ms)
 50%    107
 66%    131
 75%    145
 80%    152
 90%    191
 95%    224
 98%    369
 99%    373
100%    373 (longest request)
```


9. Parameter 3b

```
C:\xampp\apache\bin>ab -n 100 -c 10 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
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Benchmarking 127.0.0.1 (be patient).....done

Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    10
Time taken for tests:  24.881 seconds
Complete requests:    100
Failed requests:      0
Total transferred:    13600 bytes
HTML transferred:     2400 bytes
Requests per second:  4.02 [#/sec] (mean)
Time per request:     2488.072 [ms] (mean)
Time per request:     248.807 [ms] (mean, across all concurrent requests)
Transfer rate:        0.53 [Kbytes/sec] received

Connection Times (ms)
              min    mean[+/-sd] median   max
Connect:        0    246 251.9      1     503
Processing:    142   2154 445.4    2007   2510
Waiting:       138   1217 582.5    1004   2008
Total:          502   2400 372.6    2507   2510

Percentage of the requests served within a certain time (ms)
 50%    2507
 66%    2508
 75%    2508
 80%    2508
 90%    2509
 95%    2510
 98%    2510
 99%    2510
100%    2510 (longest request)
```

10. Parameter 3c

```
C:\xampp\apache\bin>ab -n 100 -c 50 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
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Benchmarking 127.0.0.1 (be patient).....done

Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    50
Time taken for tests:  25.096 seconds
Complete requests:    100
Failed requests:      0
Total transferred:    13600 bytes
HTML transferred:     2400 bytes
Requests per second:  3.98 [#/sec] (mean)
Time per request:     12547.786 [ms] (mean)
Time per request:     250.956 [ms] (mean, across all concurrent requests)
Transfer rate:        0.53 [Kbytes/sec] received

Connection Times (ms)
              min    mean[+/-sd] median   max
Connect:        0    246 251.9      1     502
Processing:    452   9277 3960.2   12031  12537
Waiting:       65   6031 3609.9    6018  12034
Total:          506   9522 3949.2   12532  12537

Percentage of the requests served within a certain time (ms)
 50%   12532
 66%   12533
 75%   12534
 80%   12534
 90%   12535
 95%   12535
 98%   12536
 99%   12537
100%   12537 (longest request)
```

11. Parameter 3d

```
C:\xampp\apache\bin>ab -n 100 -c 100 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
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Benchmarking 127.0.0.1 (be patient).....done

Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          10001

Document Path:        /
Document Length:      24 bytes

Concurrency Level:    100
Time taken for tests:  24.783 seconds
Complete requests:    100
Failed requests:       0
Total transferred:    13600 bytes
HTML transferred:     2400 bytes
Requests per second:  4.04 [#/sec] (mean)
Time per request:     24782.752 [ms] (mean)
Time per request:     247.828 [ms] (mean, across all concurrent requests)
Transfer rate:        0.54 [kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0   246 251.9      1     503
Processing:    152 12539 7265.4   12543  24628
Waiting:        54 12290 7269.4   12539  24574
Total:          509 12785 7252.8   13044  24629

Percentage of the requests served within a certain time (ms)
 50% 13044
 66% 17053
 75% 19058
 80% 20564
 90% 23070
 95% 24073
 98% 24575
 99% 24629
100% 24629 (longest request)
```