

PERFORMANCE TEST



PEMROGRAMAN JARINGAN - C

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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	Transfer rate
1a	1	0.092 seconds	10	0	1360 bytes	109.12 [#/sec]	9.164 [ms]	14.49 [Kbytes/sec]
1b	5	0.465 seconds	10	0	1360 bytes	21.50 [#/sec]	232.557 [ms]	2.86 [Kbytes/sec]
1c	10	0.585 seconds	10	0	1360 bytes	17.10 [#/sec]	584.882 [ms]	2.27 [Kbytes/sec]
2a	1	5.435 seconds	50	0	6800 bytes	9.20 [#/sec]	108.697 [ms]	1.22 [Kbytes/sec]
2b	10	0.135 seconds	50	0	6450 bytes	371.03 [#/sec]	26.952 [ms]	46.74 [Kbytes/sec]
2c	30	0.070 seconds	50	0	6450 bytes	713.15 [#/sec]	42.067 [ms]	89.84 [Kbytes/sec]
2d	50	0.083 seconds	50	0	6450 bytes	604.68 [#/sec]	82.688 [ms]	76.18 [Kbytes/sec]
3a	1	0.136 seconds	100	0	12900 bytes	735.78 [#/sec]	1.359 [ms]	92.69 [Kbytes/sec]
3b	10	0.131 seconds	100	0	12900 bytes	763.64 [#/sec]	13.095 [ms]	96.20 [Kbytes/sec]
3c	50	0.137 seconds	100	0	12900 bytes	731.13 [#/sec]	68.387 [ms]	92.11 [Kbytes/sec]
3d	100	0.153 seconds	100	0	12900 bytes	652.63 [#/sec]	153.227 [ms]	82.22 [Kbytes/sec]

C. Capture Performance Test

1. Parameter 1a

Request: 10, konkurensi: 1

```
hisamp@DESKTOP-CTJQJRO:~$ ab -n 10 -c 1 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1807734 $>
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:  0.092 seconds
Complete requests:     10
Failed requests:       0
Total transferred:     1360 bytes
HTML transferred:      240 bytes
Requests per second:   109.12 [#/sec] (mean)
Time per request:      9.164 [ms] (mean)
Time per request:      9.164 [ms] (mean, across all concurrent requests)
Transfer rate:         14.49 [Kbytes/sec] received


Connection Times (ms)
              min      mean[+/-sd] median   max
Connect:        0        0   0.3      0      1
Processing:      2        9   7.8      5     24
Waiting:         2        8   7.3      4     23
Total:           2        9   7.9      5     24


Percentage of the requests served within a certain time (ms)
 50%    5
 66%    6
 75%   15
 80%   20
 90%   24
 95%   24
 98%   24
 99%   24
100%   24 (longest request)
```

2. Parameter 1b

Request: 10, Konkurensi: 5

```
hisamp@DESKTOP-CTJQJRO:~$ ab -n 10 -c 5 http://127.0.0.1:10001/
This is ApacheBench, Version 2.3 <$Revision: 1807734 $>
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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:  0.465 seconds
Complete requests:     10
Failed requests:       0
Total transferred:     1360 bytes
HTML transferred:      240 bytes
Requests per second:   21.50 [#/sec] (mean)
Time per request:      232.557 [ms] (mean)
Time per request:      46.511 [ms] (mean, across all concurrent requests)
Transfer rate:         2.86 [Kbytes/sec] received


Connection Times (ms)
              min      mean[+/-sd] median   max
Connect:        0        0   0.3      0      1
Processing:     16       89  38.4     98    147
Waiting:        16       81  34.8     94    144
Total:          17       89  38.2     99    147


Percentage of the requests served within a certain time (ms)
 50%    99
 66%   105
 75%   110
 80%   129
 90%   147
 95%   147
 98%   147
 99%   147
100%   147 (longest request)
```

3. Parameter 1c

Request: 10, Konkurensi: 10

```
hisamwp@DESKTOP-CTJQJRO:~$ ab -n 10 -c 10 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:     10
Time taken for tests:  0.585 seconds
Complete requests:     10
Failed requests:        0
Total transferred:     1360 bytes
HTML transferred:      240 bytes
Requests per second:   17.10 [#/sec] (mean)
Time per request:       584.882 [ms] (mean)
Time per request:      58.488 [ms] (mean, across all concurrent requests)
Transfer rate:          2.27 [Kbytes/sec] received


Connection Times (ms)
              min      mean[+/-sd] median   max
Connect:        0        1   0.5      1       2
Processing:    55       109  37.8     110     162
Waiting:        55        96  28.5      95     150
Total:          56       109  37.9     110     163


Percentage of the requests served within a certain time (ms)
 50%    110
 66%    112
 75%    150
 80%    158
 90%    163
 95%    163
 98%    163
 99%    163
100%    163 (longest request)
```

4. Parameter 2a

Request: 50, Konkurensi: 1

```
hisamwp@DESKTOP-CTJQJRO:~$ ab -n 50 -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:  5.435 seconds
Complete requests:     50
Failed requests:        0
Total transferred:     6800 bytes
HTML transferred:      1200 bytes
Requests per second:   9.20 [#/sec] (mean)
Time per request:      108.697 [ms] (mean)
Time per request:     108.697 [ms] (mean, across all concurrent requests)
Transfer rate:          1.22 [Kbytes/sec] received


Connection Times (ms)
              min      mean[+/-sd] median   max
Connect:        0        0   0.2      0       1
Processing:    22       108  55.7     112     260
Waiting:       22        95  48.7      98     203
Total:         22       108  55.7     112     261


Percentage of the requests served within a certain time (ms)
 50%    112
 66%    118
 75%    127
 80%    146
 90%    204
 95%    215
 98%    261
 99%    261
100%    261 (longest request)
```

5. Parameter 2b

Request: 50, Konkurensi: 10

```
hisamwp@DESKTOP-CTJQJRO:~$ ab -n 50 -c 10 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:    10
Time taken for tests:  0.135 seconds
Complete requests:    50
Failed requests:       0
Total transferred:    6450 bytes
HTML transferred:     1200 bytes
Requests per second:  371.03 [#/sec] (mean)
Time per request:     26.952 [ms] (mean)
Time per request:     2.695 [ms] (mean, across all concurrent requests)
Transfer rate:        46.74 [Kbytes/sec] received

Connection Times (ms)
              min      mean[+/-sd] median   max
Connect:        0        1   0.5      0      2
Processing:      1        6  14.7      2     64
Waiting:         1        5  14.5      2     62
Total:           2        6  15.1      3     66
ERROR: The median and mean for the initial connection time are more than twice the standard
deviation apart. These results are NOT reliable.

Percentage of the requests served within a certain time (ms)
 50%    3
 66%    3
 75%    3
 80%    3
 90%    4
 95%   65
 98%   66
 99%   66
100%   66 (longest request)
```

5. Parameter 2c

Request: 50, Konkurensi: 30

```
hisamwp@DESKTOP-CTJQJRO:~$ 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:  0.070 seconds
Complete requests:    50
Failed requests:       0
Total transferred:    6450 bytes
HTML transferred:     1200 bytes
Requests per second:  713.15 [#/sec] (mean)
Time per request:     42.067 [ms] (mean)
Time per request:     1.402 [ms] (mean, across all concurrent requests)
Transfer rate:        89.84 [Kbytes/sec] received

Connection Times (ms)
              min      mean[+/-sd] median   max
Connect:        0        2   2.3      0      8
Processing:      3        6   3.4      4     14
Waiting:         2        5   3.3      4     14
Total:           3        7   5.0      4     16

Percentage of the requests served within a certain time (ms)
 50%    4
 66%    6
 75%   14
 80%   15
 90%   16
 95%   16
 98%   16
 99%   16
100%   16 (longest request)
```

6. Parameter 2d

Request: 50, Konkurensi: 50

```
hisamwp@DESKTOP-CTJQJRO:~$ ab -n 50 -c 50 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:    50
Time taken for tests:  0.083 seconds
Complete requests:    50
Failed requests:       0
Total transferred:    6450 bytes
HTML transferred:     1200 bytes
Requests per second:  604.68 [#/sec] (mean)
Time per request:      82.688 [ms] (mean)
Time per request:      1.654 [ms] (mean, across all concurrent requests)
Transfer rate:         76.18 [Kbytes/sec] received

Connection Times (ms)
              min    mean[+/-sd] median   max
Connect:        0    10   6.9      11     22
Processing:      2    18   9.2      15     31
Waiting:         2    15   7.9      14     28
Total:           4    28  11.9      31     50

Percentage of the requests served within a certain time (ms)
 50%    31
 66%    35
 75%    39
 80%    40
 90%    41
 95%    42
 98%    50
 99%    50
100%    50 (longest request)
```

7. Parameter 3a

Request: 100, Konkurensi: 1

```
hisamwp@DESKTOP-CTJQJRO:~$ 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:  0.136 seconds
Complete requests:    100
Failed requests:       0
Total transferred:    12900 bytes
HTML transferred:     2400 bytes
Requests per second:  735.78 [#/sec] (mean)
Time per request:      1.359 [ms] (mean)
Time per request:      1.359 [ms] (mean, across all concurrent requests)
Transfer rate:         92.69 [Kbytes/sec] received

Connection Times (ms)
              min    mean[+/-sd] median   max
Connect:        0     0   0.1       0     0
Processing:      1     1   0.2       1     2
Waiting:         1     1   0.2       1     2
Total:           1     1   0.2       1     2

Percentage of the requests served within a certain time (ms)
 50%     1
 66%     1
 75%     1
 80%     1
 90%     1
 95%     1
 98%     2
 99%     2
100%     2 (longest request)
```

8. Parameter 3b

Request: 100, Konkurensi: 10

```
hisamwp@DESKTOP-CTJQJRO:~$ ab -n 100 -c 10 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:    10
Time taken for tests:  0.131 seconds
Complete requests:    100
Failed requests:       0
Total transferred:    12900 bytes
HTML transferred:     2400 bytes
Requests per second:  763.64 [#/sec] (mean)
Time per request:     13.095 [ms] (mean)
Time per request:     1.310 [ms] (mean, across all concurrent requests)
Transfer rate:        96.20 [Kbytes/sec] received

Connection Times (ms)
              min   mean[+/-sd] median   max
Connect:        0    0   0.2      0      1
Processing:      1    3   0.9      2      5
Waiting:         1    3   0.9      2      5
Total:           2    3   0.9      3      5
WARNING: The median and mean for the processing time are not within a normal deviation
         These results are probably not that reliable.
WARNING: The median and mean for the waiting time are not within a normal deviation
         These results are probably not that reliable.

Percentage of the requests served within a certain time (ms)
 50%    3
 66%    4
 75%    4
 80%    4
 90%    4
 95%    5
 98%    5
 99%    5
100%    5 (longest request)
```

9. Parameter 3c

Request: 100, Konkurensi: 50

```
hisamwp@DESKTOP-CTJQJRO:~$ ab -n 100 -c 50 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:    50
Time taken for tests:  0.137 seconds
Complete requests:    100
Failed requests:       0
Total transferred:    12900 bytes
HTML transferred:     2400 bytes
Requests per second:  731.13 [#/sec] (mean)
Time per request:     68.387 [ms] (mean)
Time per request:     1.368 [ms] (mean, across all concurrent requests)
Transfer rate:        92.11 [Kbytes/sec] received

Connection Times (ms)
              min   mean[+/-sd] median   max
Connect:        0    2   3.1      0     12
Processing:      2    7   6.0      4     23
Waiting:         2    6   5.0      3     23
Total:           2    9   8.3      4     29

Percentage of the requests served within a certain time (ms)
 50%    4
 66%    5
 75%   10
 80%   20
 90%   25
 95%   26
 98%   27
 99%   29
100%   29 (longest request)
```

10. Parameter 3d

Request: 100, Konkurensi: 100

```
hisamwp@DESKTOP-CTJQJRO:~$ ab -n 100 -c 100 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:    100
Time taken for tests:  0.153 seconds
Complete requests:    100
Failed requests:       0
Total transferred:    12900 bytes
HTML transferred:     2400 bytes
Requests per second:  652.63 [#/sec] (mean)
Time per request:     153.227 [ms] (mean)
Time per request:     1.532 [ms] (mean, across all concurrent requests)
Transfer rate:        82.22 [Kbytes/sec] received

Connection Times (ms)
              min   mean[+/-sd] median   max
Connect:        0    15   17.5      7     51
Processing:      1    22   17.4     26     50
Waiting:         1    21   16.3     26     48
Total:          2    37   28.7     52     77

Percentage of the requests served within a certain time (ms)
 50%    52
 66%    56
 75%    61
 80%    63
 90%    74
 95%    75
 98%    76
 99%    77
100%    77 (longest request)
```