Nomor 7

testing dengan 5000 request dan 150 request/second.
ab -n 5000 -c 150 http://10.73.4.2/

```
Benchmarking 10.73.4.2 (be patient)
Completed 500 requests
Completed 1000 requests
Completed 1500 requests
Completed 2000 requests
Completed 2500 requests
Completed 3000 requests
Completed 3500 requests
Completed 4000 requests
Completed 4500 requests
Completed 5000 requests
Finished 5000 requests


Server Software:        nginx/1.14.2
Server Hostname:        10.73.4.2
Server Port:            80

Document Path:          /
Document Length:        169 bytes

Concurrency Level:      150
Time taken for tests:   1.897 seconds
Complete requests:      5000
Failed requests:        0
Non-2xx responses:      5000
Total transferred:      1595000 bytes
HTML transferred:       845000 bytes
Requests per second:    2635.82 [#/sec] (mean)
Time per request:       56.908 [ms] (mean)
Time per request:       0.379 [ms] (mean, across all concurrent requests)
Transfer rate:          821.12 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        2    21  86.7     13    1043
Processing:     3    22  51.6     13    1462
Waiting:        2    22  49.3     13    1462
Total:         13    44 100.4     27    1484

Percentage of the requests served within a certain time (ms)
  50%     27
  66%     30
  75%     32
  80%     33
  90%     37
  95%     46
  98%    262
  99%    339
 100%   1484 (longest request)
```

Nomor 8

Testing dengan 500 request dan 50 request/second
ab -n 500 -c 50 http://10.73.4.2/generic_hash

```
root@Dmitri:~# ab -n 500 -c 50 http://10.73.4.2/generic_hash
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 10.73.4.2 (be patient)
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Finished 500 requests


Server Software:        nginx/1.14.2
Server Hostname:        10.73.4.2
Server Port:            80

Document Path:          /generic_hash
Document Length:        185 bytes

Concurrency Level:      50
Time taken for tests:   0.184 seconds
Complete requests:      500
Failed requests:        0
Non-2xx responses:      500
Total transferred:      192500 bytes
HTML transferred:       92500 bytes
Requests per second:    2722.24 [#/sec] (mean)
Time per request:       18.367 [ms] (mean)
Time per request:       0.367 [ms] (mean, across all concurrent requests)
Transfer rate:          1023.50 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        3    9   3.4      8      17
Processing:     3    9   2.7      9      17
Waiting:        2    9   2.7      9      17
Total:          5   17   4.5     18      27

Percentage of the requests served within a certain time (ms)
  50%     18
  66%     19
  75%     20
  80%     21
  90%     24
  95%     25
  98%     25
  99%     26
 100%     27 (longest request)
root@Dmitri:~#
```

ab -n 500 -c 50 http://10.73.4.2/ip_hash/

```
root@Dmitri:~# ab -n 500 -c 50 http://10.73.4.2/ip_hash/
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 10.73.4.2 (be patient)
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Finished 500 requests


Server Software:        nginx/1.14.2
Server Hostname:        10.73.4.2
Server Port:            80

Document Path:          /ip_hash/
Document Length:        195 bytes

Concurrency Level:      50
Time taken for tests:   0.188 seconds
Complete requests:      500
Failed requests:        0
Non-2xx responses:      500
Total transferred:      200000 bytes
HTML transferred:       97500 bytes
Requests per second:    2666.41 [#/sec] (mean)
Time per request:       18.752 [ms] (mean)
Time per request:       0.375 [ms] (mean, across all concurrent requests)
Transfer rate:          1041.57 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        2    9   4.7      9      24
Processing:     5    8   2.5      8      20
Waiting:        5    8   2.5      7      20
Total:          7   18   5.5     17      36

Percentage of the requests served within a certain time (ms)
  50%     17
  66%     19
  75%     20
  80%     20
  90%     24
  95%     30
  98%     35
  99%     36
 100%     36 (longest request)
root@Dmitri:~#
```

ab -n 500 -c 50 http://10.73.4.2/least_conn/

```
root@Dmitri:~# ab -n 500 -c 50 http://10.73.4.2/least_conn/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
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Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.73.4.2 (be patient)
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Finished 500 requests


Server Software:        nginx/1.14.2
Server Hostname:        10.73.4.2
Server Port:            80

Document Path:          /least_conn/
Document Length:        195 bytes

Concurrency Level:      50
Time taken for tests:   0.179 seconds
Complete requests:      500
Failed requests:        0
Non-2xx responses:      500
Total transferred:      200000 bytes
HTML transferred:       97500 bytes
Requests per second:    2796.97 [#/sec] (mean)
Time per request:       17.877 [ms] (mean)
Time per request:       0.358 [ms] (mean, across all concurrent requests)
Transfer rate:          1092.57 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        3    8   2.8      9      15
Processing:     2    9   2.0      9      17
Waiting:        1    9   2.1      9      17
Total:          6   17   3.4     18      25

Percentage of the requests served within a certain time (ms)
  50%     18
  66%     18
  75%     19
  80%     19
  90%     21
  95%     23
  98%     24
  99%     24
 100%     25 (longest request)
root@Dmitri:~#
```

ab -n 500 -c 50 http://10.73.4.2/round_robin/

```
root@Dmitri:~# ab -n 500 -c 50 http://10.73.4.2/round_robin/
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 10.73.4.2 (be patient)
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Finished 500 requests


Server Software:        nginx/1.14.2
Server Hostname:        10.73.4.2
Server Port:            80

Document Path:          /round_robin/
Document Length:        195 bytes

Concurrency Level:      50
Time taken for tests:   0.173 seconds
Complete requests:      500
Failed requests:        0
Non-2xx responses:      500
Total transferred:      200000 bytes
HTML transferred:       97500 bytes
Requests per second:    2894.56 [#/sec] (mean)
Time per request:       17.274 [ms] (mean)
Time per request:       0.345 [ms] (mean, across all concurrent requests)
Transfer rate:          1130.69 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        3    8   2.7      8      15
Processing:     2    8   2.3      8      15
Waiting:        1    8   2.3      8      15
Total:          8   16   4.0     17      23

Percentage of the requests served within a certain time (ms)
  50%     17
  66%     19
  75%     20
  80%     20
  90%     21
  95%     21
  98%     22
  99%     23
 100%     23 (longest request)
root@Dmitri:~#
```
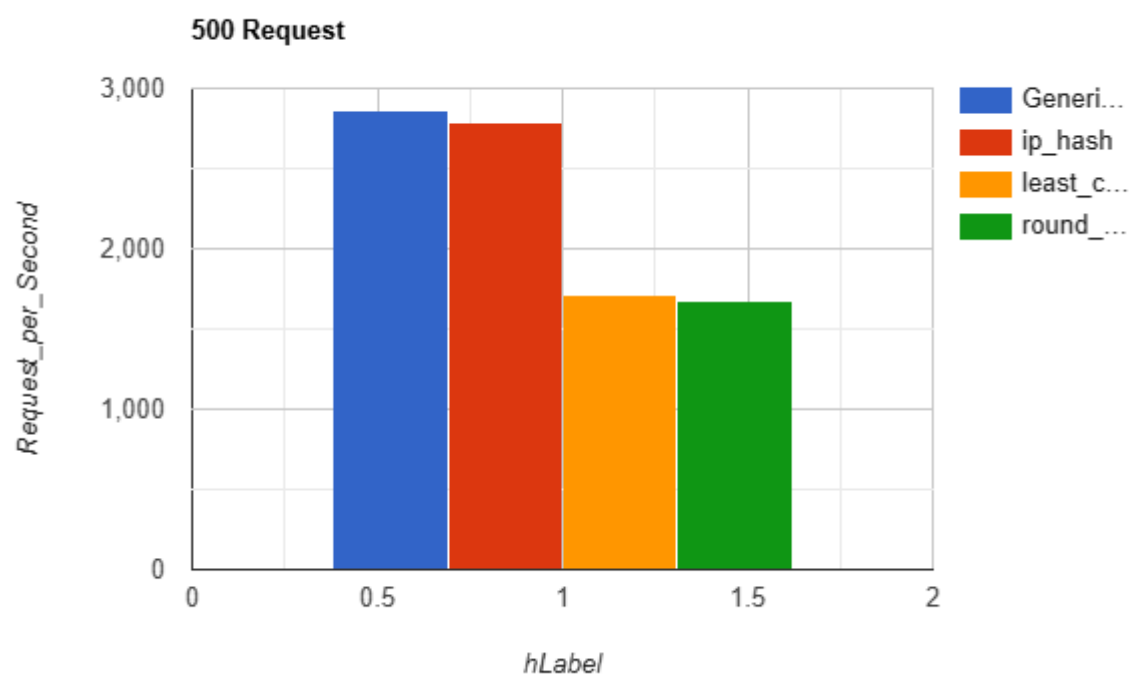
500 Request

ab -n 1000 -c 10 http://10.73.4.2/
3 Worker

```
Benchmarking 10.73.4.2 (be patient)
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        nginx/1.14.2
Server Hostname:        10.73.4.2
Server Port:            80

Document Path:          /
Document Length:        169 bytes

Concurrency Level:      10
Time taken for tests:   0.402 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      319000 bytes
HTML transferred:       169000 bytes
Requests per second:    2487.28 [#/sec] (mean)
Time per request:       4.020 [ms] (mean)
Time per request:       0.402 [ms] (mean, across all concurrent requests)
Transfer rate:          774.85 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        1    2   1.2      1       7
Processing:     1    2   0.8      2       7
Waiting:        1    2   0.8      2       7
Total:          2    4   1.5      3      11

Percentage of the requests served within a certain time (ms)
  50%      3
  66%      4
  75%      5
  80%      5
  90%      6
  95%      7
  98%      8
  99%      8
 100%     11 (longest request)
```

2 Worker

```
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        nginx/1.14.2
Server Hostname:        10.73.4.2
Server Port:            80

Document Path:          /
Document Length:        169 bytes

Concurrency Level:      10
Time taken for tests:   0.367 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      319000 bytes
HTML transferred:       169000 bytes
Requests per second:    2722.67 [#/sec] (mean)
Time per request:       3.673 [ms] (mean)
Time per request:       0.367 [ms] (mean, across all concurrent requests)
Transfer rate:          848.18 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    2   1.2      1       8
Processing:     0    2   0.7      2       7
Waiting:        0    2   0.7      1       7
Total:          1    4   1.4      3      10
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%      5
  90%      6
  95%      7
  98%      8
  99%      9
 100%     10 (longest request)
```

1 Worker

```
Benchmarking 10.73.4.2 (be patient)
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        nginx/1.14.2
Server Hostname:        10.73.4.2
Server Port:            80

Document Path:          /
Document Length:        169 bytes

Concurrency Level:      10
Time taken for tests:   0.550 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      319000 bytes
HTML transferred:       169000 bytes
Requests per second:    1819.29 [#/sec] (mean)
Time per request:       5.497 [ms] (mean)
Time per request:       0.550 [ms] (mean, across all concurrent requests)
Transfer rate:          566.75 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    2   2.3      2      63
Processing:     1    2   2.0      2      60
Waiting:        1    2   2.0      2      58
Total:          1    4   4.1      4     123

Percentage of the requests served within a certain time (ms)
  50%      4
  66%      5
  75%      5
  80%      6
  90%      7
  95%      8
  98%     10
  99%     10
 100%    123 (longest request)
root@Dmitri:~#
```

Jumlah Worker

- 3_Worker
- 2_Worker
- 1_Worker

Request_per_Second

hLabel