1. General

a) Round Robin

completed request: 1000

failed request: 666

time taken for test: 1.628s

request per second (rps): 614.07

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.2/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.2 (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/1.10.3
Server Hostname:        10.71.2.2
Server Port:            80

Document Path:          /
Document Length:        171 bytes

Concurrency Level:      100
Time taken for tests:   1.628 seconds
Complete requests:      1000
Failed requests:        666
   (Connect: 0, Receive: 0, Length: 666, Exceptions: 0)
Total transferred:      315002 bytes
HTML transferred:       169002 bytes
Requests per second:    614.07 [#/sec] (mean)
Time per request:       162.848 [ms] (mean)
Time per request:       1.628 [ms] (mean, across all concurrent requests)
Transfer rate:          188.90 [Kbytes/sec] received

Connection Times (ms)
            min  mean[+/-sd] median   max
Connect:      3   15   6.0     14      33
Processing:  24   71 110.9     45    1030
```

```
Connection Times (ms)
            min  mean[+/-sd] median    max
Connect:      3   15   6.0      14      33
Processing:  24   71 110.9      45    1030
Waiting:     24   70 110.2      45    1030
Total:       31   86 111.5      59    1051

Percentage of the requests served within a certain time (ms)
  50%     59
  66%     64
  75%     77
  80%     83
  90%     94
  95%    298
  98%    326
  99%   1012
 100%   1051 (longest request)
root@Srikandi:~#
```

b) Least Conn

completed request: 1000

failed request: 682

time taken for test: 1.780s

request per second (rps): 561.71

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.2/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.2 (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/1.10.3
Server Hostname:        10.71.2.2
Server Port:            80

Document Path:          /
Document Length:        169 bytes

Concurrency Level:      100
Time taken for tests:   1.780 seconds
Complete requests:      1000
Failed requests:        682
   (Connect: 0, Receive: 0, Length: 682, Exceptions: 0)
Total transferred:      314952 bytes
HTML transferred:       168952 bytes
Requests per second:    561.71 [#/sec] (mean)
Time per request:       178.029 [ms] (mean)
Time per request:       1.780 [ms] (mean, across all concurrent requests)
Transfer rate:          172.76 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
```

```
Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        3    15    3.2     15     27
Processing:    19    76  139.9     46   1027
Waiting:       19    75  139.8     46   1027
Total:         33    91  140.0     62   1043

Percentage of the requests served within a certain time (ms)
  50%     62
  66%     65
  75%     67
  80%     68
  90%     72
  95%    282
  98%    491
  99%   1032
 100%   1043 (longest request)
root@Srikandi:~#
```

c) IP Hash

completed request: 1000

failed request: 0

time taken for test: 1.583s

request per second (rps): 631.59

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.2/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.2 (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/1.10.3
Server Hostname:        10.71.2.2
Server Port:            80

Document Path:          /
Document Length:        171 bytes

Concurrency Level:      100
Time taken for tests:   1.583 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      317000 bytes
HTML transferred:       171000 bytes
Requests per second:    631.59 [#/sec] (mean)
Time per request:       158.331 [ms] (mean)
Time per request:       1.583 [ms] (mean, across all concurrent requests)
Transfer rate:          195.52 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
```

```
Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        3   12    4.8     12      31
Processing:    16   55   66.0     42    1024
Waiting:       16   53   59.1     42    1024
Total:         35   67   65.4     56    1041

Percentage of the requests served within a certain time (ms)
  50%     56
  66%     58
  75%     60
  80%     63
  90%     71
  95%     95
  98%    279
  99%    284
 100%   1041 (longest request)
root@Srikandi:~#
```

d) Generic Hash

completed request: 1000

failed request: 0

time taken for test: 1.376s

request per second (rps): 726.75

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.2/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.2 (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/1.10.3
Server Hostname:        10.71.2.2
Server Port:            80

Document Path:          /
Document Length:        169 bytes

Concurrency Level:      100
Time taken for tests:   1.376 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      315000 bytes
HTML transferred:       169000 bytes
Requests per second:    726.75 [#/sec] (mean)
Time per request:       137.599 [ms] (mean)
Time per request:       1.376 [ms] (mean, across all concurrent requests)
Transfer rate:          223.56 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
```

```
Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        4    13   4.8     13      39
Processing:    28    62 130.9     38    1025
Waiting:       28    62 130.2     38    1025
Total:         37    75 132.2     51    1050

Percentage of the requests served within a certain time (ms)
  50%     51
  66%     53
  75%     57
  80%     60
  90%     71
  95%     88
  98%    301
  99%   1039
 100%   1050 (longest request)
root@Srikandi:~#
```

2. Kotalingga

a) Round Robin

completed request: 1000

failed request: 0

time taken for test: 0.383s

request per second (rps): 2608.88

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.4/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.4 (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/1.10.3
Server Hostname:        10.71.2.4
Server Port:            80

Document Path:          /
Document Length:        169 bytes

Concurrency Level:      100
Time taken for tests:   0.383 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      315000 bytes
HTML transferred:       169000 bytes
Requests per second:    2608.88 [#/sec] (mean)
Time per request:       38.331 [ms] (mean)
Time per request:       0.383 [ms] (mean, across all concurrent requests)
Transfer rate:          802.54 [Kbytes/sec] received
```

```
Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    3   2.3      3       9
Processing:    10   34   6.0     35      44
Waiting:       10   33   6.0     35      44
Total:         14   37   5.2     38      50

Percentage of the requests served within a certain time (ms)
  50%     38
  66%     39
  75%     40
  80%     40
  90%     41
  95%     43
  98%     44
  99%     47
 100%     50 (longest request)
```

b) Least Conn

completed request: 1000

failed request: 0

time taken for test: 0.382s

request per second (rps): 2620.40

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.4/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.4 (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/1.10.3
Server Hostname:        10.71.2.4
Server Port:            80

Document Path:          /
Document Length:        169 bytes

Concurrency Level:      100
Time taken for tests:   0.382 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      315000 bytes
HTML transferred:       169000 bytes
Requests per second:    2620.40 [#/sec] (mean)
Time per request:       38.162 [ms] (mean)
Time per request:       0.382 [ms] (mean, across all concurrent requests)
Transfer rate:          806.08 [Kbytes/sec] received

Connection Times (ms)
```

```
Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    3   2.5      2      17
Processing:    12   34   7.1     35      48
Waiting:       12   34   7.2     35      47
Total:         16   37   5.9     38      49

Percentage of the requests served within a certain time (ms)
  50%     38
  66%     39
  75%     40
  80%     41
  90%     43
  95%     45
  98%     46
  99%     47
 100%     49 (longest request)
```

c) IP Hash

completed request: 1000

failed request: 0

time taken for test: 0.394s

request per second (rps): 2538.41

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.4/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.4 (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/1.10.3
Server Hostname:        10.71.2.4
Server Port:            80

Document Path:          /
Document Length:        169 bytes

Concurrency Level:      100
Time taken for tests:   0.394 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      315000 bytes
HTML transferred:       169000 bytes
Requests per second:    2538.41 [#/sec] (mean)
Time per request:       39.395 [ms] (mean)
Time per request:       0.394 [ms] (mean, across all concurrent requests)
Transfer rate:          780.86 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
```

```
Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    2   1.6      2      10
Processing:    11   36   6.9     37      47
Waiting:       11   36   6.9     37      46
Total:         14   38   6.0     39      48

Percentage of the requests served within a certain time (ms)
  50%     39
  66%     41
  75%     42
  80%     43
  90%     44
  95%     45
  98%     46
  99%     46
 100%     48 (longest request)
```

d) Generic Hash

completed request: 1000

failed request: 0

time taken for test: 0.380s

request per second (rps): 2633.76

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.4/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.4 (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/1.10.3
Server Hostname:        10.71.2.4
Server Port:            80

Document Path:          /
Document Length:        169 bytes

Concurrency Level:      100
Time taken for tests:   0.380 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      315000 bytes
HTML transferred:       169000 bytes
Requests per second:    2633.76 [#/sec] (mean)
Time per request:       37.968 [ms] (mean)
Time per request:       0.380 [ms] (mean, across all concurrent requests)
Transfer rate:          810.19 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
```

```
Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    4   3.5      4      18
Processing:    13   32   6.9     33      44
Waiting:       13   32   6.9     33      44
Total:         16   37   5.5     38      46

Percentage of the requests served within a certain time (ms)
  50%     38
  66%     40
  75%     41
  80%     41
  90%     42
  95%     43
  98%     44
  99%     45
 100%     46 (longest request)
```

3. Bedahulu

a) Round Robin

completed request: 1000

failed request: 0

time taken for test: 0.523

request per second (rps): 1911.69

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.5/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.5 (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/1.10.3
Server Hostname:        10.71.2.5
Server Port:            80

Document Path:          /
Document Length:        167 bytes

Concurrency Level:      100
Time taken for tests:   0.523 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      313000 bytes
HTML transferred:       167000 bytes
Requests per second:    1911.69 [#/sec] (mean)
Time per request:       52.310 [ms] (mean)
Time per request:       0.523 [ms] (mean, across all concurrent requests)
Transfer rate:          584.33 [Kbytes/sec] received

Connection Times (ms)
            min  mean[+/-sd] median   max
```

```
Connection Times (ms)
            min  mean[+/-sd] median   max
Connect:      4   18   8.0     18      42
Processing:  13   24   9.2     23     239
Waiting:     13   24   9.2     23     239
Total:       19   42  11.0     41     277

Percentage of the requests served within a certain time (ms)
  50%     41
  66%     43
  75%     46
  80%     46
  90%     51
  95%     60
  98%     61
  99%     62
 100%    277 (longest request)
root@Srikandi:~#
```

b) Least Conn

completed request: 1000

failed request: 0

time taken for test: 0.626s

request per second (rps): 1597.74

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.5/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.5 (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/1.10.3
Server Hostname:        10.71.2.5
Server Port:            80

Document Path:          /
Document Length:        167 bytes

Concurrency Level:      100
Time taken for tests:   0.626 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      313000 bytes
HTML transferred:       167000 bytes
Requests per second:    1597.74 [#/sec] (mean)
Time per request:       62.589 [ms] (mean)
Time per request:       0.626 [ms] (mean, across all concurrent requests)
Transfer rate:          488.37 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
```

```
Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        4   19   6.1     20      32
Processing:    10   25  20.8     23     283
Waiting:       10   25  20.8     23     283
Total:         17   44  20.8     44     307

Percentage of the requests served within a certain time (ms)
  50%     44
  66%     46
  75%     47
  80%     48
  90%     50
  95%     51
  98%     53
  99%    227
 100%    307 (longest request)
root@Srikandi:~#
```

c) IP Hash

completed request: 1000

failed request: 0

time taken for test: 1.566s

request per second (rps): 638.74

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.5/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.5 (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/1.10.3
Server Hostname:        10.71.2.5
Server Port:            80

Document Path:          /
Document Length:        167 bytes

Concurrency Level:      100
Time taken for tests:   1.566 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      313000 bytes
HTML transferred:       167000 bytes
Requests per second:    638.74 [#/sec] (mean)
Time per request:       156.557 [ms] (mean)
Time per request:       1.566 [ms] (mean, across all concurrent requests)
Transfer rate:          195.24 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
```

```
Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        2    15   6.9     16      32
Processing:     8    27  51.6     21    1389
Waiting:        8    27  51.6     21    1389
Total:         19    42  51.4     37    1403

Percentage of the requests served within a certain time (ms)
  50%     37
  66%     40
  75%     42
  80%     44
  90%     47
  95%     49
  98%     51
  99%    253
 100%   1403 (longest request)
```

d) Generic Hash

completed request: 1000

failed request: 0

time taken for test: 0.509s

request per second (rps) 1965

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.5/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.5 (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/1.10.3
Server Hostname:        10.71.2.5
Server Port:            80

Document Path:          /
Document Length:        167 bytes

Concurrency Level:      100
Time taken for tests:   0.509 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      313000 bytes
HTML transferred:       167000 bytes
Requests per second:    1965.00 [#/sec] (mean)
Time per request:       50.891 [ms] (mean)
Time per request:       0.509 [ms] (mean, across all concurrent requests)
Transfer rate:          600.63 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
```

```
Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        6    22   7.8     24      49
Processing:     7    27   9.8     25      63
Waiting:        7    27   9.7     25      62
Total:         13    49  10.1     49      75

Percentage of the requests served within a certain time (ms)
  50%     49
  66%     50
  75%     52
  80%     54
  90%     62
  95%     65
  98%     71
  99%     72
 100%     75 (longest request)
root@Srikandi:~#
```

4. Tanjungkulai

a) Round Robin

completed request: 1000

failed request: 0

time taken for test: 0.615

request per second (rps): 1625.24

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.6/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.6 (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/1.10.3
Server Hostname:        10.71.2.6
Server Port:            80

Document Path:          /
Document Length:        171 bytes

Concurrency Level:      100
Time taken for tests:   0.615 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      317000 bytes
HTML transferred:       171000 bytes
Requests per second:    1625.24 [#/sec] (mean)
Time per request:       61.530 [ms] (mean)
Time per request:       0.615 [ms] (mean, across all concurrent requests)
Transfer rate:          503.13 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
```

```
Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        4   17    5.5     18      33
Processing:    12   27   33.5     20     286
Waiting:       11   27   33.5     20     286
Total:         20   44   34.2     39     307

Percentage of the requests served within a certain time (ms)
  50%     39
  66%     41
  75%     42
  80%     42
  90%     50
  95%     54
  98%    237
  99%    258
 100%    307 (longest request)
root@Srikandi:~#
```

b) Least Conn

completed request: 1000

failed request: 0

time taken for test: 0.456

request per second (rps): 2194.71

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.6/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.6 (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/1.10.3
Server Hostname:        10.71.2.6
Server Port:            80

Document Path:          /
Document Length:        171 bytes

Concurrency Level:      100
Time taken for tests:   0.456 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      317000 bytes
HTML transferred:       171000 bytes
Requests per second:    2194.71 [#/sec] (mean)
Time per request:       45.564 [ms] (mean)
Time per request:       0.456 [ms] (mean, across all concurrent requests)
Transfer rate:          679.42 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
```

```
Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        4    15   6.1     15      34
Processing:     8    25  38.7     18     320
Waiting:        7    24  38.7     18     320
Total:         20    40  41.1     34     352

Percentage of the requests served within a certain time (ms)
  50%     34
  66%     36
  75%     39
  80%     39
  90%     46
  95%     54
  98%     57
  99%    350
 100%    352 (longest request)
root@Srikandi:~#
```

c) IP Hash

completed request: 1000

failed request: 0

time taken for test: 0.664

request per second (rps): 1506.16

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.6/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.6 (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/1.10.3
Server Hostname:        10.71.2.6
Server Port:            80

Document Path:          /
Document Length:        171 bytes

Concurrency Level:      100
Time taken for tests:   0.664 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      317000 bytes
HTML transferred:       171000 bytes
Requests per second:    1506.16 [#/sec] (mean)
Time per request:       66.394 [ms] (mean)
Time per request:       0.664 [ms] (mean, across all concurrent requests)
Transfer rate:          466.26 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
```

```
Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        3    18   6.5     19      34
Processing:    10    25  27.2     21     286
Waiting:        9    24  26.3     21     286
Total:         17    43  28.5     39     318

Percentage of the requests served within a certain time (ms)
  50%     39
  66%     42
  75%     43
  80%     44
  90%     51
  95%     54
  98%     56
  99%    248
 100%    318 (longest request)
root@Srikandi:~#
```

d) Generic Hash

completed request: 1000

failed request: 0

time taken for test: 0.413s

request per second (rps): 2420.66

```
root@Srikandi:~# ab -n 1000 -c 100 http://10.71.2.6/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 10.71.2.6 (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/1.10.3
Server Hostname:        10.71.2.6
Server Port:            80

Document Path:          /
Document Length:        171 bytes

Concurrency Level:      100
Time taken for tests:   0.413 seconds
Complete requests:      1000
Failed requests:        0
Total transferred:      317000 bytes
HTML transferred:       171000 bytes
Requests per second:    2420.66 [#/sec] (mean)
Time per request:       41.311 [ms] (mean)
Time per request:       0.413 [ms] (mean, across all concurrent requests)
Transfer rate:          749.36 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
```
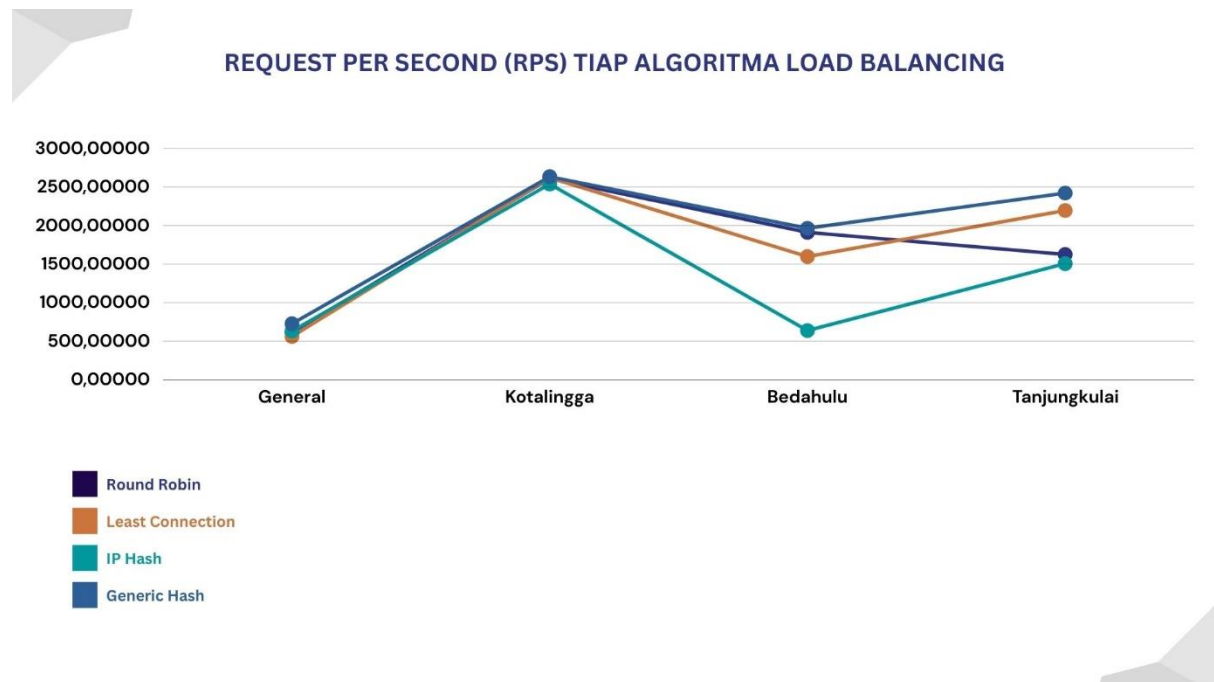
```
Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        4    16   6.3     18       28
Processing:    14    23   4.8     23       42
Waiting:       14    23   4.7     23       42
Total:         18    39   6.2     40       53

Percentage of the requests served within a certain time (ms)
  50%     40
  66%     43
  75%     44
  80%     44
  90%     46
  95%     47
  98%     50
  99%     51
 100%     53 (longest request)
root@Srikandi:~#
```

Grafik:

REQUEST PER SECOND (RPS) TIAP ALGORITMA LOAD BALANCING

Legenda:
- Round Robin
- Least Connection
- IP Hash
- Generic Hash

Hasil Analisis:

Dari hasil benchmarking, dapat disimpulkan bahwa algoritma load balancing generic hash adalah yang terbaik karena mempunyai request per second yang tinggi dengan waktu yang lebih cepat dibandingkan dengan algoritma load balancing lainnya. Sedangkan untuk web server dengan performa terbaik adalah Kotalingga dengan rps dan time taken for test yang lebih unggul.

Meme: