

DOKUMENTASI TUGAS 9



PEMROGRAMAN JARINGAN - B

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Server_async_http.py dengan port 45000

No test	Concurrency level	Time taken for test	Complete request	Failed request	Total transferred	Request per second	Time per request	Transfer rate
1	1	1.099 seconds	1000	0	122000 bytes	909.81 [#/sec]	1.099 [ms]	108.40 [kbytes/sec]
2	5	1.126 seconds	1000	0	122000 bytes	887.77 [#/sec]	1.126 [ms]	105.77 [kbytes/sec]
3	10	1.260 seconds	1000	0	122000 bytes	793.86 [#/sec]	1.260 [ms]	94.58 [kbytes/sec]
4	50	7.580 seconds	1000	0	122000 bytes	131.92 [#/sec]	7.580 [ms]	15.72 [kbytes/sec]
5	100	27.273 seconds	1000	0	122000 bytes	36.67 [#/sec]	27.273 [ms]	4.37 [kbytes/sec]
6	250	14.249 seconds	1000	0	122000 bytes	70.18 [#/sec]	14.249 [ms]	8.36 [kbytes/sec]
7	500	14.234 seconds	1000	0	122000 bytes	70.26 [#/sec]	14.234 [ms]	8.37 [kbytes/sec]
8	1000	4.371 seconds	1000	0	122000 bytes	228.7 [6 #/sec]	4.371 [ms]	27.25 [kbytes/sec]

Server_thread_http.py dengan port 45000

No test	Concurrency level	Time taken for test	Complete request	Failed request	Total transferred	Request per second	Time per request	Transfer rate
1	1	1.284 seconds	1000	0	122000 bytes	778.98 [6 #/sec]	1.284 [ms]	92.81 [kbytes/sec]

2	5	1.313 seconds	1000	0	122000 bytes	761.46[#/s ec]	1.313 [ms]	90.72 [kbytes/sec]
3	10	2.689 seconds	1000	0	122000 bytes	371.90[#/s ec]	2.689 [ms]	44.31 [kbytes/sec]
4	50	1.872 seconds	1000	0	122000 bytes	534.19[#/s ec]	1.872 [ms]	63.64 [kbytes/sec]
5	100	2.738 seconds	1000	0	122000 bytes	365.24[#/s ec]	2.738 [ms]	43.51 [kbytes/sec]
6	250	54.69 1 seconds	1000	0	122000 bytes	18.28[#/se c]	54.69 1 [ms]	2.18 [kbytes/sec]

Dokumentasi Foto:

1. Server_async_http.py dengan concurrency level 1

```

Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          45000

Document Path:        /
Document Length:      4 bytes

Concurrency Level:     1
Time taken for tests:  1.099 seconds
Complete requests:     1000
Failed requests:        0
Non-2xx responses:     1000
Total transferred:     122000 bytes
HTML transferred:      4000 bytes
Requests per second:   909.81 [#/sec] (mean)
Time per request:      1.099 [ms] (mean)
Time per request:      1.099 [ms] (mean, across all concurrent requests)
Transfer rate:         108.40 [Kbytes/sec] received

Connection Times (ms)
      min    mean[+/-sd] median    max
Connect:    0      0   0.0      0      1
Processing:  0      1   1.0      1      7
Waiting:    0      1   1.0      1      7
Total:      0      1   1.0      1      7

```

2. Server_async_http.py dengan concurrency level 5

```
File Edit View Search Terminal Help
Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          45000

Document Path:        /
Document Length:      4 bytes

Concurrency Level:     5
Time taken for tests:  1.126 seconds
Complete requests:     1000
Failed requests:       0
Non-2xx responses:     1000
Total transferred:    122000 bytes
HTML transferred:     4000 bytes
Requests per second:   887.77 [#/sec] (mean)
Time per request:      5.632 [ms] (mean)
Time per request:      1.126 [ms] (mean, across all concurrent requests)
Transfer rate:         105.77 [Kbytes/sec] received

Connection Times (ms)
      min    mean[+/-sd] median   max
Connect:    0      0  0.4      0     7
Processing:  2      6  2.0      6    18
Waiting:    0      5  2.0      5    18
Total:      2      6  2.1      6    22

Percentage of the requests served within a certain time (ms)
 50%      6
 66%      6
```

3. Server_async_http.py dengan concurrency level 10

```
ayu@ayu-VirtualBox: ~
File Edit View Search Terminal Help
Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          45000

Document Path:        /
Document Length:      4 bytes

Concurrency Level:     10
Time taken for tests:  1.260 seconds
Complete requests:     1000
Failed requests:       0
Non-2xx responses:     1000
Total transferred:    122000 bytes
HTML transferred:     4000 bytes
Requests per second:   793.86 [#/sec] (mean)
Time per request:      12.597 [ms] (mean)
Time per request:      1.260 [ms] (mean, across all concurrent requests)
Transfer rate:         94.58 [Kbytes/sec] received

Connection Times (ms)
      min    mean[+/-sd] median   max
Connect:    0      3  55.7      0   1020
Processing:  3      8   9.4      7    209
Waiting:    3      8   9.4      7    208
Total:      3     11  63.3      7   1226

Percentage of the requests served within a certain time (ms)
 50%      7
```

4. Server_async_http.py dengan concurrency level 50

```
Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          45000

Document Path:        /
Document Length:      4 bytes

Concurrency Level:     50
Time taken for tests:  7.580 seconds
Complete requests:     1000
Failed requests:       0
Non-2xx responses:     1000
Total transferred:    122000 bytes
HTML transferred:     4000 bytes
Requests per second:   131.92 [#/sec] (mean)
Time per request:      379.019 [ms] (mean)
Time per request:      7.580 [ms] (mean, across all concurrent requests)
Transfer rate:         15.72 [Kbytes/sec] received

Connection Times (ms)
      min    mean[+/-sd] median   max
Connect:    0     43 204.6      0   1026
Processing:  3     62 413.8      8   6565
Waiting:    2     62 413.7      8   6565
Total:      3    105 562.9      8   7569
```

5. Server_async_http.py dengan concurrency level 100

```
File Edit View Search Terminal Help
Server Software:      myserver/1.0
Server Hostname:     127.0.0.1
Server Port:         45000

Document Path:       /
Document Length:     4 bytes

Concurrency Level:    100
Time taken for tests: 27.273 seconds
Complete requests:    1000
Failed requests:      0
Non-2xx responses:    1000
Total transferred:    122000 bytes
HTML transferred:     4000 bytes
Requests per second:  36.67 [#/sec] (mean)
Time per request:     2727.276 [ms] (mean)
Time per request:     27.273 [ms] (mean, across all concurrent requests)
Transfer rate:        4.37 [Kbytes/sec] received

Connection Times (ms)
  min mean[+/-sd] median max
Connect:    0  45 207.1    0  1011
Processing:  3 191 1429.3    7 26241
Waiting:    3 191 1429.3    7 26241
Total:      3 235 1561.9    7 27251

Percentage of the requests served within a certain time (ms)
 50%    7
 66%    8
```

6. Server_async_http.py dengan concurrency level 250

```
Finished 1000 requests

Server Software:      myserver/1.0
Server Hostname:     127.0.0.1
Server Port:         45000

Document Path:       /
Document Length:     4 bytes

Concurrency Level:    250
Time taken for tests: 14.249 seconds
Complete requests:    1000
Failed requests:      0
Non-2xx responses:    1000
Total transferred:    122000 bytes
HTML transferred:     4000 bytes
Requests per second:  70.18 [#/sec] (mean)
Time per request:     3562.140 [ms] (mean)
Time per request:     14.249 [ms] (mean, across all concurrent requests)
Transfer rate:        8.36 [Kbytes/sec] received

Connection Times (ms)
  min mean[+/-sd] median max
Connect:    0  39 193.0    0  1010
Processing:  2  99 715.8    8 13217
Waiting:    0  99 715.8    7 13217
Total:      2 138 852.3    8 14227
```

7. Server_async_http.py dengan concurrency level 500

```
Server Software:      myserver/1.0
Server Hostname:     127.0.0.1
Server Port:         45000

Document Path:       /
Document Length:     4 bytes

Concurrency Level:    500
Time taken for tests: 14.234 seconds
Complete requests:    1000
Failed requests:      0
Non-2xx responses:    1000
Total transferred:    122000 bytes
HTML transferred:     4000 bytes
Requests per second:  70.26 [#/sec] (mean)
Time per request:     7116.842 [ms] (mean)
Time per request:     14.234 [ms] (mean, across all concurrent requests)
Transfer rate:        8.37 [Kbytes/sec] received

Connection Times (ms)
  min mean[+/-sd] median max
Connect:    0  46 207.3    0  1014
Processing:  2 165 1167.5    7 13203
Waiting:    2 164 1167.5    7 13203
Total:      2 210 1307.4    7 14216
```

8. Server_async_http.py dengan concurrency level 1000

```
Finished 1000 requests

Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          45000

Document Path:        /
Document Length:      4 bytes

Concurrency Level:     1000
Time taken for tests:   4.371 seconds
Complete requests:     1000
Failed requests:        0
Non-2xx responses:     1000
Total transferred:     122000 bytes
HTML transferred:      4000 bytes
Requests per second:   228.76 [#/sec] (mean)
Time per request:      4371.475 [ms] (mean)
Time per request:      4.371 [ms] (mean, across all concurrent requests)
Transfer rate:         27.25 [Kbytes/sec] received

Connection Times (ms)
      min    mean[+/-sd] median   max
Connect:    0      33 173.5       0   1002
Processing:  3      47 295.3       7   3347
Waiting:    3      47 295.3       7   3347
Total:       3      81 438.6       7   4349
```

1. Server_Thread_http.py dengan concurrency level 1

```
Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          46000

Document Path:        /
Document Length:      4 bytes

Concurrency Level:     1
Time taken for tests:   1.284 seconds
Complete requests:     1000
Failed requests:        0
Non-2xx responses:     1000
Total transferred:     122000 bytes
HTML transferred:      4000 bytes
Requests per second:   778.98 [#/sec] (mean)
Time per request:      1.284 [ms] (mean)
Time per request:      1.284 [ms] (mean, across all concurrent requests)
Transfer rate:         92.81 [Kbytes/sec] received
```

```
Connection Times (ms)
      min    mean[+/-sd] median   max
Connect:    0       0   0.0       0     1
Processing:  0       1   1.1       1    10
Waiting:    0       1   1.1       1    10
Total:       0       1   1.1       1    10
```

2. Server_Thread_http.py dengan concurrency level 5

```
Server Software:      myserver/1.0
Server Hostname:      127.0.0.1
Server Port:          46000

Document Path:        /
Document Length:      4 bytes

Concurrency Level:     5
Time taken for tests:   1.313 seconds
Complete requests:     1000
Failed requests:        0
Non-2xx responses:     1000
Total transferred:     122000 bytes
HTML transferred:      4000 bytes
Requests per second:   761.46 [#/sec] (mean)
Time per request:      6.566 [ms] (mean)
Time per request:      1.313 [ms] (mean, across all concurrent requests)
Transfer rate:         90.72 [Kbytes/sec] received
```

```
Connection Times (ms)
      min    mean[+/-sd] median   max
Connect:    0       2  45.1       0   1011
Processing:  1       4   6.6       4    206
Waiting:    1       4   6.6       4    206
Total:       1       6  49.9       4   1216
```

3. Server_Thread_http.py dengan concurrency level 10

```
Finished 1000 requests

Server Software:      myserver/1.0
Server Hostname:     127.0.0.1
Server Port:         46000

Document Path:       /
Document Length:     4 bytes

Concurrency Level:    10
Time taken for tests: 2.689 seconds
Complete requests:    1000
Failed requests:      0
Non-2xx responses:    1000
Total transferred:    122000 bytes
HTML transferred:     4000 bytes
Requests per second:  371.90 [#/sec] (mean)
Time per request:     26.889 [ms] (mean)
Time per request:     2.689 [ms] (mean, across all concurrent requests)
Transfer rate:        44.31 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:      0    7  84.5      0   1016
Processing:    1    8  65.9      4   1667
Waiting:       1    8  65.9      4   1666
Total:         1   15 139.4      4   2682
```

4. Server_Thread_http.py dengan concurrency level 50

```
Server Software:      myserver/1.0
Server Hostname:     127.0.0.1
Server Port:         46000

Document Path:       /
Document Length:     4 bytes

Concurrency Level:    50
Time taken for tests: 1.872 seconds
Complete requests:    1000
Failed requests:      0
Non-2xx responses:    1000
Keep-Alive requests:  0
Total transferred:    122000 bytes
HTML transferred:     4000 bytes
Requests per second:  534.19 [#/sec] (mean)
Time per request:     93.599 [ms] (mean)
Time per request:     1.872 [ms] (mean, across all concurrent requests)
Transfer rate:        63.64 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:      0    5  71.8      0   1020
Processing:    1    6  32.5      4    833
Waiting:       0    6  32.5      4    833
Total:         1   11  99.8      4   1851
```

5. Server_Thread_http.py dengan concurrency level 100

```
File Edit View Search Terminal Help
Server Hostname:      127.0.0.1
Server Port:          46000

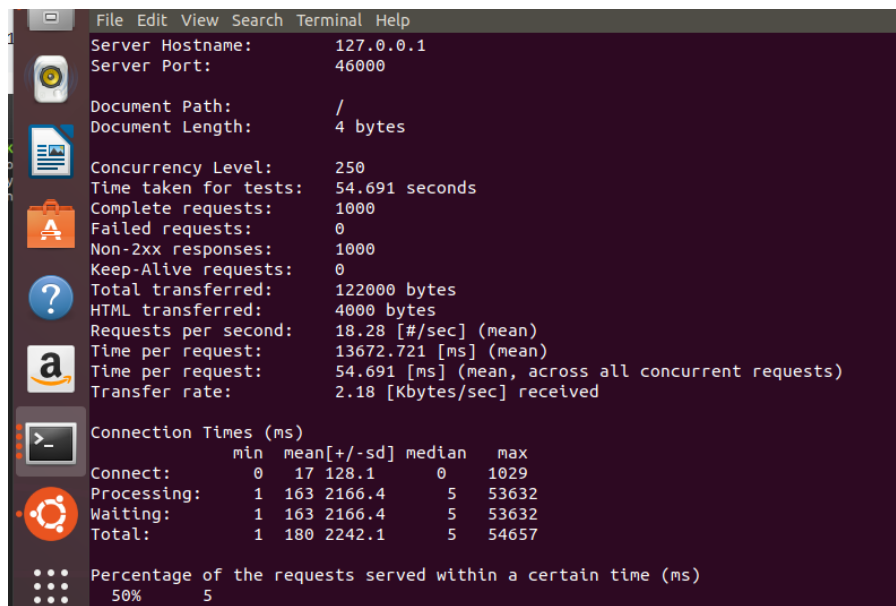
Document Path:       /
Document Length:     4 bytes

Concurrency Level:    100
Time taken for tests: 2.738 seconds
Complete requests:    1000
Failed requests:      0
Non-2xx responses:    1000
Keep-Alive requests:  0
Total transferred:    122000 bytes
HTML transferred:     4000 bytes
Requests per second:  365.24 [#/sec] (mean)
Time per request:     273.796 [ms] (mean)
Time per request:     2.738 [ms] (mean, across all concurrent requests)
Transfer rate:        43.51 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:      0    8  90.7      0   1020
Processing:    1   10  85.3      4   1670
Waiting:       0   10  85.3      4   1670
Total:         1   19 166.3      4   2689

Percentage of the requests served within a certain time (ms)
 50%    4
```

6. Server_Thread_http.py dengan concurrency level 250



```
File Edit View Search Terminal Help
Server Hostname: 127.0.0.1
Server Port: 46000

Document Path: /
Document Length: 4 bytes

Concurrency Level: 250
Time taken for tests: 54.691 seconds
Complete requests: 1000
Failed requests: 0
Non-2xx responses: 1000
Keep-Alive requests: 0
Total transferred: 122000 bytes
HTML transferred: 4000 bytes
Requests per second: 18.28 [#/sec] (mean)
Time per request: 13672.721 [ms] (mean)
Time per request: 54.691 [ms] (mean, across all concurrent requests)
Transfer rate: 2.18 [Kbytes/sec] received

Connection Times (ms)
      min      mean[+/-sd] median    max
Connect:    0   17 128.1      0   1029
Processing:  1  163 2166.4      5  53632
Waiting:    1  163 2166.4      5  53632
Total:      1  180 2242.1      5  54657

Percentage of the requests served within a certain time (ms)
 50%      5
```