

## Tugas 7 Load Test


### Script Code Performance Test

```
test > script.test.js > ...
1 import http from 'k6/http';
2 import { check, sleep } from 'k6';
3 import { htmlReport } from "https://raw.githubusercontent.com/benc-uk/k6-reporter/main/dist/bundle.js";
4 import { textSummary } from "https://jslib.k6.io/k6-summary/0.0.1/index.js";
5 |
6 export const options = {
7   vus: 10,
8   duration: '10s',
9   thresholds: {
10     http_req_duration: ['p(98)<1000'], // 98% request < 1 detik
11     http_req_failed: ['rate<0.01'],
12     checks: ['rate>0.99']
13   },
14 };
15
16 export default function () {
17   // LOGIN
18   let loginRes = http.post(
19     'https://belajar-bareng.onrender.com/api/login',
20     JSON.stringify({
21       username: 'admin',
22       password: 'admin'
23     }),
24     {
25       headers: { 'Content-Type': 'application/json' },
26     }
27   );
28
29   check(loginRes, {
30     'login status is 200': (r) => r.status === 200,
31     'login response time < 1s': (r) => r.timings.duration < 1000,
32     'token exists': (r) => r.json('token') !== undefined,
33   });
34 }
```

```
34
35 // Ambil token
36 let token = loginRes.json('token');
37
38 // GET USERS
39 let usersRes = http.get(
40   'https://belajar-bareng.onrender.com/users',
41   {
42     headers: {
43       Authorization: `Bearer ${token}`,
44     },
45   }
46 );
47
48 check(usersRes, {
49   'users status is 200': (r) => r.status === 200,
50   'users response time < 1s': (r) => r.timings.duration < 1000,
51 });
52
53 sleep(1);
54 }
55
56 // HTML REPORT
57 export function handleSummary(data) {
58   return {
59     "report/result.html": htmlReport(data),
60     stdout: textSummary(data, { indent: " ", enableColors: true }),
61   };
62 }
```

## CLI Report

```
PS D:\BOOTCAMP QA\Bootcamp_QualityAssurance\TUGAS 7 LOAD TEST> k6 run test/script.test.js
```



```

execution: local
script: test/script.test.js
output: -

scenarios: (100.00%) 1 scenario, 10 max VUs, 40s max duration (incl. graceful stop):
  * default: 10 looping VUs for 10s (gracefulStop: 30s)


INFO[0011] [k6-reporter v3.0.3] Generating HTML summary report, with theme: default source=console
✓ login status is 200
✓ login response time < 1s
✓ token exists
✓ users status is 200
✓ users response time < 1s

✓ checks.....: 100.00% ✓ 350      ✗ 0
data_received.....: 290 kB    26 kB/s
data_sent.....: 38 kB      3.4 kB/s
http_req_blocked.....: avg=6.18ms   min=0s      med=0s      max=92.08ms  p(90)=0s     p(95)=86.04ms
http_req_connecting.....: avg=1.84ms   min=0s      med=0s      max=26.23ms  p(90)=0s     p(95)=25.65ms
✓ http_req_duration.....: avg=255.63ms min=197.77ms med=244.09ms max=681.18ms p(90)=277.07ms p(95)=296.04ms
  { expected_response:true }...: avg=4.23ms   min=0s      med=0s      max=64.16ms  p(90)=0s     p(95)=59.2ms
✓ http_req_failed.....: 0.00%      ✓ 0        ✗ 140
http_req_receiving.....: avg=319.65µs min=0s      med=0s      max=3.31ms   p(90)=875.34µs p(95)=1.19ms
http_req_sending.....: avg=455.49µs min=0s      med=417.7µs max=12.42ms   p(90)=607.04µs p(95)=779.41µs
http_req_tls_handshaking.....: avg=4.23ms   min=0s      med=0s      max=64.16ms  p(90)=0s     p(95)=59.2ms
http_req_waiting.....: avg=254.86ms min=197.07ms med=243.27ms max=680.62ms  p(90)=276.73ms p(95)=294.9ms
http_reqs.....: 140      12.620935/s
iteration_duration.....: avg=1.52s    min=1.41s   med=1.5s    max=2.03s    p(90)=1.57s    p(95)=1.65s
iterations.....: 70      6.310467/s
vus.....: 3      min=3      max=10

running (11.1s), 00/10 VUs, 70 complete and 0 interrupted iterations
default ✓ [=====] 10 VUs 10s
PS D:\BOOTCAMP QA\Bootcamp_QualityAssurance\TUGAS 7 LOAD TEST>


```

HTML Report

 **Test Report: 2026-02-12 03:44**


TOTAL REQUESTS

140




FAILED REQUESTS

0




BREACHED THRESHOLDS

0



FAILED CHECKS

0



Detailed Metrics

Test Run Details

Checks & Groups

Trends & Times

	AVG	MIN	MED	MAX	P(90)	P(95)
http_req_blocked	6.18	0.00	0.00	92.08	0.00	86.05
http_req_connecting	1.85	0.00	0.00	26.23	0.00	25.65
http_req_duration	255.64	197.77	244.09	681.18	277.07	296.04
http_req_receiving	0.32	0.00	0.00	3.32	0.88	1.20
http_req_sending	0.46	0.00	0.42	12.42	0.61	0.78
http_req_tls_handshaking	4.24	0.00	0.00	64.17	0.00	59.20
http_req_waiting	254.86	197.07	243.27	680.63	276.73	294.91
iteration_duration	1524.83	1413.57	1501.27	2034.91	1573.13	1659.69

% Rates

	RATE %	PASS COUNT	FAIL COUNT
http_req_failed	0.00%	0.00	140.00



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FAILED CHECKS

0



Detailed Metrics

Test Run Details

Checks & Groups

CHECKS

Passed

350

Failed

0

ITERATIONS

Total

70

Rate

6.31/s

VIRTUAL USERS

Min

3

Max

10

REQUESTS

Total

140

Rate

12.62/s

DATA RECEIVED

Total

0.29 MB

Rate

0.03 mB/s

DATA SENT

Total

0.04 MB

Rate

0.00 mB/s

K6 Reporter v3.0.3 - Ben Coleman 2025 - [GitHub](#)



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140



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Detailed Metrics

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### Other Checks

CHECK NAME	PASSES	FAILURES	% PASS
login status is 200	70	0	100.00
login response time < 1s	70	0	100.00
token exists	70	0	100.00
users status is 200	70	0	100.00
users response time < 1s	70	0	100.00

K6 Reporter v3.0.3 - Ben Coleman 2025 - [GitHub](#)