

Objective : searching for breaking point of system

```
stages: [
  { duration: '1m', target: 100 }, // ramp up to 100 users in 1 minute
  { duration: '2m', target: 100 }, // keep at 100 users for 2 minutes
  { duration: '30s', target: 0 }, // ramp down to 0 users
],
```

```

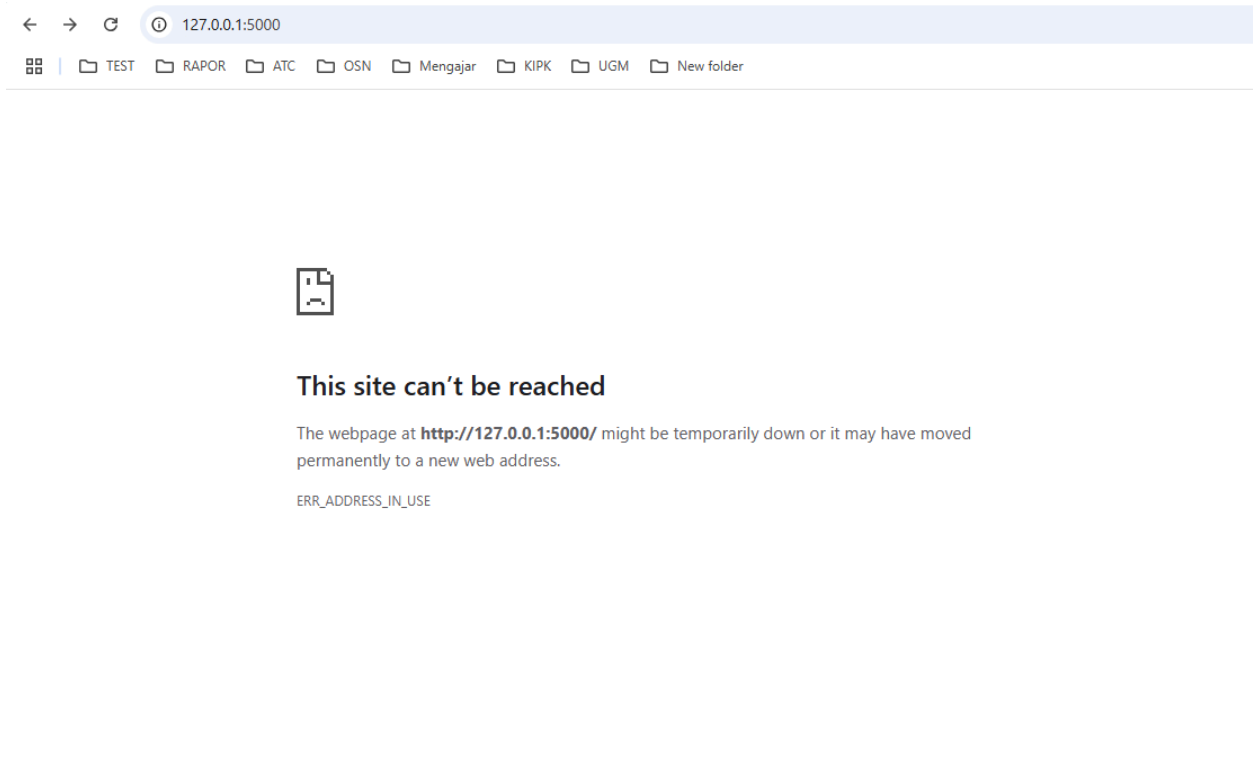
X is status 200
  33% - ✓ 32633 / X 63417

checks.....: 33.97% 32633 out of 96050
data_received.....: 11 MB 54 kB/s
data_sent.....: 7.6 MB 36 kB/s
http_req_blocked.....: avg=148.82µs min=0s med=0s max=21.59ms p(90)=512.1µs p(95)=538.05µs
http_req_connecting.....: avg=136.16µs min=0s med=0s max=21.59ms p(90)=507.8µs p(95)=529.4µs
✓ http_req_duration.....: avg=50.48ms min=0s med=0s max=4.41s p(90)=234.54ms p(95)=249.56ms
  { expected_response:true }.....: avg=148.6ms min=501.9µs med=136.52ms max=4.41s p(90)=256.52ms p(95)=289.35ms
http_req_failed.....: 66.02% 63417 out of 96050
http_req_receiving.....: avg=239.71µs min=0s med=0s max=185.71ms p(90)=981.5µs p(95)=1.36ms
http_req_sending.....: avg=12.5µs min=0s med=0s max=6.42ms p(90)=0s p(95)=0s
http_req_tls_handshaking.....: avg=0s min=0s med=0s max=0s p(90)=0s p(95)=0s
http_req_waiting.....: avg=50.23ms min=0s med=0s max=4.4s p(90)=233.7ms p(95)=248.65ms
http_reqs.....: 96050 457.373411/s
iteration_duration.....: avg=172.02ms min=501.9µs med=157.13ms max=4.41s p(90)=371.71ms p(95)=406.37ms
iterations.....: 96050 457.373411/s
vus.....: 1 min=1 max=100
vus_max.....: 100 min=100 max=100

```

Error rate at 66.03% caused by system crashed with error messages below

[illegible]



Iteration 2

```
stages: [  
  { duration: '1s', target: 10 }, // ramp up to 100 users in 1 minute  
  { duration: '10s', target: 50 }, // keep at 100 users for 2 minutes  
  { duration: '3s', target: 0 },   // ramp down to 0 users  
],
```

Result



```
execution: local
script: stress_test_login.js
output: -

scenarios: (100.00%) 1 scenario, 50 max VUs, 44s max duration (incl. graceful stop):
    * default: Up to 50 looping VUs for 14s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)

✓ is status 200

checks.....: 100.00% 12321 out of 12321
data_received.....: 4.3 MB 306 kB/s
data_sent.....: 2.9 MB 205 kB/s
http_req_blocked.....: avg=236.02µs min=0s med=0s max=4.65ms p(90)=513.7µs p(95)=533.8µs
http_req_connecting.....: avg=202.27µs min=0s med=0s max=1.64ms p(90)=512.8µs p(95)=522.1µs
✓ http_req_duration.....: avg=30.3ms min=502.1µs med=29.25ms max=153.59ms p(90)=51.75ms p(95)=55.52ms
    { expected_response:true }...: avg=30.3ms min=502.1µs med=29.25ms max=153.59ms p(90)=51.75ms p(95)=55.52ms
http_req_failed.....: 0.00% 0 out of 12321
http_req_receiving.....: avg=426.54µs min=0s med=451.4µs max=39.63ms p(90)=944.5µs p(95)=1.08ms
http_req_sending.....: avg=28.69µs min=0s med=0s max=6.22ms p(90)=0s p(95)=502.1µs
http_req_tls_handshaking.....: avg=0s min=0s med=0s max=0s p(90)=0s p(95)=0s
http_req_waiting.....: avg=29.84ms min=501.6µs med=28.83ms max=153.09ms p(90)=51.25ms p(95)=55.07ms
http_reqs.....: 12321 879.992833/s
iteration_duration.....: avg=30.6ms min=502.1µs med=29.52ms max=154.11ms p(90)=52.05ms p(95)=55.89ms
iterations.....: 12321 879.992833/s
vus.....: 1 min=1 max=49
vus_max.....: 50 min=50 max=50

Running (14.0s), 00/50 VUs, 12321 complete and 0 interrupted iterations
default ✓ [=====] 00/50 VUs 14s
```

Result **passed**

Iteration 3

```
stages: [
  { duration: '1s', target: 10 }, // ramp up to 100 users in 1 minute
  { duration: '10s', target: 80 }, // keep at 100 users for 2 minutes
  { duration: '3s', target: 0 }, // ramp down to 0 users
],
```



```
execution: local
script: stress_test_login.js
output: -
```

```
scenarios: (100.00%) 1 scenario, 80 max VUs, 44s max duration (incl. graceful stop):
* default: Up to 80 looping VUs for 14s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```

✓ is status 200

```
checks.....: 100.00% 7002 out of 7002
data_received.....: 2.4 MB 174 kB/s
data_sent.....: 1.6 MB 117 kB/s
http_req_blocked.....: avg=457.07µs min=0s med=504.49µs max=6.91ms p(90)=545.19µs p(95)=704.3µs
http_req_connecting.....: avg=406.16µs min=0s med=504.2µs max=3.29ms p(90)=535.59µs p(95)=601.18µs
✓ http_req_duration.....: avg=81.56ms min=1.77ms med=81.06ms max=365.37ms p(90)=142.06ms p(95)=165.29ms
  { expected_response:true }...: avg=81.56ms min=1.77ms med=81.06ms max=365.37ms p(90)=142.06ms p(95)=165.29ms
http_req_failed.....: 0.00% 0 out of 7002
http_req_receiving.....: avg=685.72µs min=0s med=601.65µs max=6.97ms p(90)=1.43ms p(95)=1.63ms
http_req_sending.....: avg=48.85µs min=0s med=0s max=6.21ms p(90)=0s p(95)=513.9µs
http_req_tls_handshaking.....: avg=0s min=0s med=0s max=0s p(90)=0s p(95)=0s
http_req_waiting.....: avg=80.82ms min=1.51ms med=80.26ms max=363.79ms p(90)=141.38ms p(95)=164.57ms
http_reqs.....: 7002 500.135344/s
iteration_duration.....: avg=82.11ms min=2.19ms med=81.6ms max=365.9ms p(90)=142.64ms p(95)=165.8ms
iterations.....: 7002 500.135344/s
vus.....: 1 min=1 max=79
vus_max.....: 80 min=80 max=80
```

```
running (14.0s), 00/80 VUs, 7002 complete and 0 interrupted iterations
default ✓ [=====] 00/80 VUs 14s
```

Result **passed**

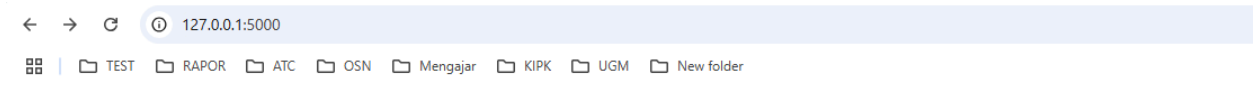
Iteration 4

```
stages: [
  { duration: '1s', target: 10 }, // ramp up to 100 users in 1 minute
  { duration: '10s', target: 90 }, // keep at 100 users for 2 minutes
  { duration: '3s', target: 0 }, // ramp down to 0 users
],
```

```
X is status 200
  36% - ✓ 3619 / X 6321
```

```
checks.....: 36.40% 3619 out of 9940
data_received.....: 1.3 MB 90 kB/s
data_sent.....: 845 kB 60 kB/s
http_req_blocked.....: avg=146.09µs min=0s med=0s max=5.67ms p(90)=503.29µs p(95)=513.7µs
http_req_connecting.....: avg=135.36µs min=0s med=0s max=5.67ms p(90)=503µs p(95)=512.4µs
✓ http_req_duration.....: avg=7.64ms min=0s med=0s max=339.84ms p(90)=26.4ms p(95)=31.68ms
  { expected_response:true }...: avg=20.99ms min=502.49µs med=18.72ms max=339.84ms p(90)=34.08ms p(95)=47.65ms
http_req_failed.....: 63.59% 6321 out of 9940
http_req_receiving.....: avg=137.31µs min=0s med=0s max=10.81ms p(90)=563.33µs p(95)=768.33µs
http_req_sending.....: avg=8.77µs min=0s med=0s max=1.52ms p(90)=0s p(95)=0s
http_req_tls_handshaking.....: avg=0s min=0s med=0s max=0s p(90)=0s p(95)=0s
http_req_waiting.....: avg=7.49ms min=0s med=0s max=339.33ms p(90)=25.89ms p(95)=31.09ms
http_reqs.....: 9940 709.948498/s
iteration_duration.....: avg=64.42ms min=502.49µs med=50.09ms max=342.54ms p(90)=135.07ms p(95)=138.09ms
iterations.....: 9940 709.948498/s
vus.....: 1 min=1 max=89
vus_max.....: 90 min=90 max=90
```

```
running (14.0s), 00/90 VUs, 9940 complete and 0 interrupted iterations
default ✓ [=====] 00/90 VUs 14s
```



This site can't be reached

The webpage at <http://127.0.0.1:5000/> might be temporarily down or it may have moved permanently to a new web address.

ERR_ADDRESS_IN_USE

Result : **system crashed**

Conclusion

During stress testing, when the number of requests was set to 90 and 100, the system failed, suggesting that it could not handle that load. However, with a target load of fewer than 80 requests, the system operated normally without any issues. So we can conclude that the breaking point is around 90 rps