Final Report
On
Performance Testing

Software Testing and Quality Assurance

Submitted By ,

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Section   **: A**

Performance testing is a crucial aspect of software development aimed at evaluating the speed, responsiveness, and stability of a system under varying workload conditions. It helps identify performance bottlenecks, scalability issues, and areas for optimization. Here's a brief overview:

Performance Testing:

Load Testing: Evaluates the system's behavior under normal and peak load conditions to ensure it can handle the expected number of users and transactions without degradation.

Stress Testing: Pushes the system beyond its limits to identify breaking points and measure how it recovers from failure.

Spike Testing: Spike testing is a type of performance testing that evaluates how a system responds to sudden and extreme increases in workload or traffic. The goal is to assess the system's stability, resilience, and performance under unexpected spikes in user activity.Concurrency Testing:

Concurrency testing: Concurrency testing, also known as simultaneous user testing, evaluates how well a system performs when multiple users access it concurrently. The objective is to assess the system's ability to handle simultaneous requests and maintain performance, integrity, and data consistency under load.

http.get('http://127.0.0.1:8000/orders/pending')

Load Test

scenarios: (100.00%) 1 scenario, 100 max VUs, 3m30s max duration (incl. graceful stop):
        * default: Up to 100 looping VUs for 3m0s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)

```
data_received..............: 0 B     0 B/s
data_sent..................: 21 kB   99 B/s
http_req_blocked...........: avg=662.22µs min=0s      med=509.2µs max=3.51ms p(90)=1.15ms p(95)=1.76ms
http_req_waiting...........: avg=1m0s     min=59.99s med=1m0s    max=1m0s   p(90)=1m0s   p(95)=1m0s
http_reqs..................: 172     0.819036/s
iteration_duration.........: avg=1m1s     min=1m1s   med=1m1s    max=1m1s   p(90)=1m1s   p(95)=1m1s
iterations.................: 170     0.809512/s
vus........................: 51      min=1      max=99
vus_max....................: 100     min=100    max=100
```
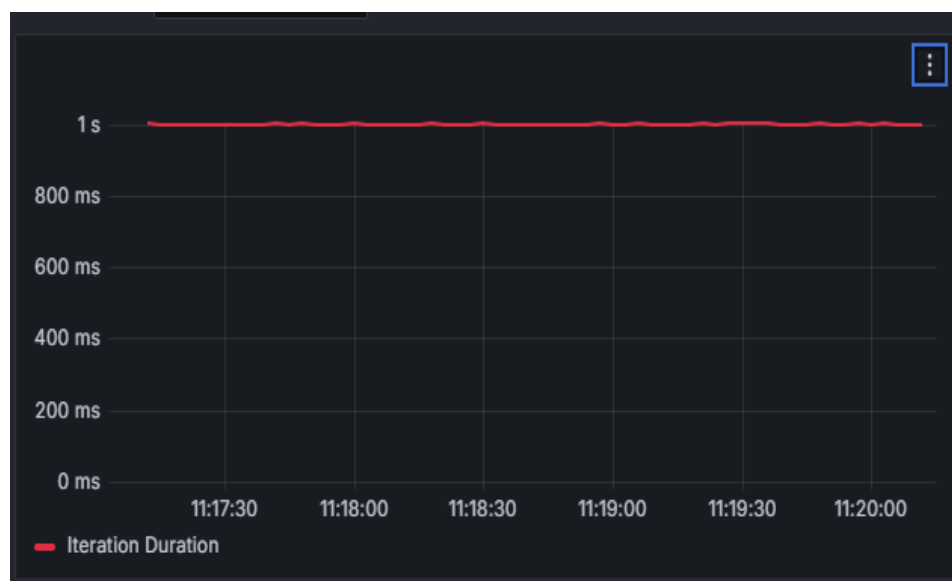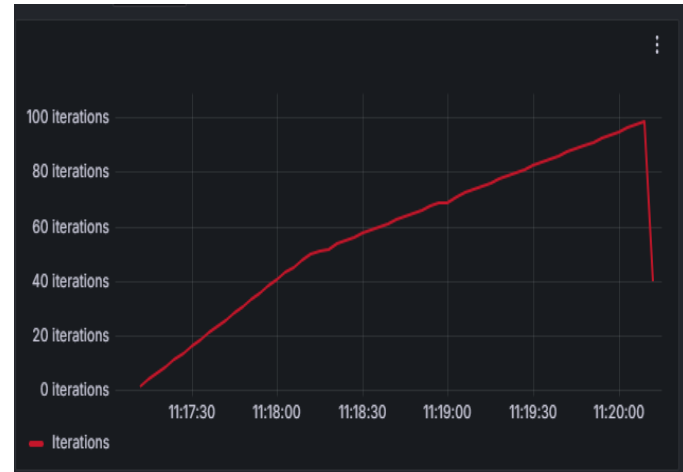
Stress Testing

scenarios: (100.00%) 1 scenario, 20 max VUs, 7m30s max duration (incl. graceful stop):
   default: Up to 20 looping VUs for 7m0s over 5 stages (gracefulRampDown: 30s, gracefulStop: 30s)

```
data_received..................: 5.3 MB 12 kB/s
data_sent......................: 122 kB 275 B/s
http_req_blocked...............: avg=610.88µs min=0s      med=508.8µs max=6.95ms  p(90)=1.16ms  p(95)=1.52ms
http_req_connecting............: avg=506.03µs min=0s      med=506.2µs max=6.95ms  p(90)=1.05ms  p(95)=1.17ms
http_req_duration..............: avg=16.56s   min=2.35s   med=15.48s  max=28.95s  p(90)=25.25s  p(95)=26.26s
  { expected_response:true }...: avg=16.56s   min=2.35s   med=15.48s  max=28.95s  p(90)=25.25s  p(95)=26.26s
http_req_failed................: 0.00%  ✓ 0         ✗ 251
http_req_receiving.............: avg=3.27ms   min=989.8µs med=2.85ms  max=33.09ms p(90)=4.6ms   p(95)=5.44ms
http_req_sending...............: avg=143.06µs min=0s      med=0s      max=999.9µs p(90)=513.59µs p(95)=554.5µs
http_req_tls_handshaking.......: avg=0s       min=0s      med=0s      max=0s      p(90)=0s      p(95)=0s
http_req_waiting...............: avg=16.55s   min=2.35s   med=15.47s  max=28.95s  p(90)=25.24s  p(95)=26.26s
http_reqs......................: 251    0.563777/s
iteration_duration.............: avg=33.77s   min=6.72s   med=31.6s   max=51.43s  p(90)=50.26s  p(95)=50.77s
iterations.....................: 122    0.274027/s
vus............................: 1      min=1       max=20
vus_max........................: 20     min=20      max=20
```
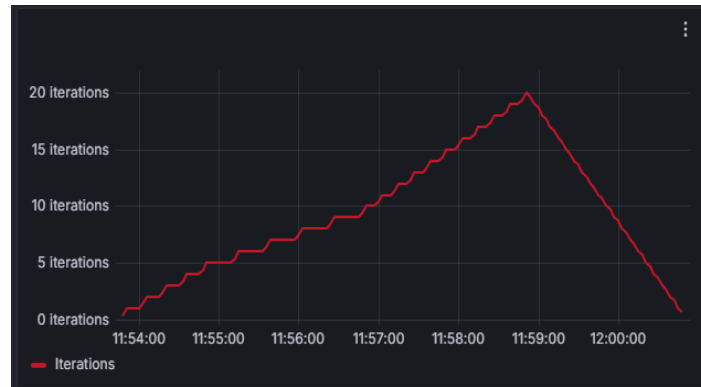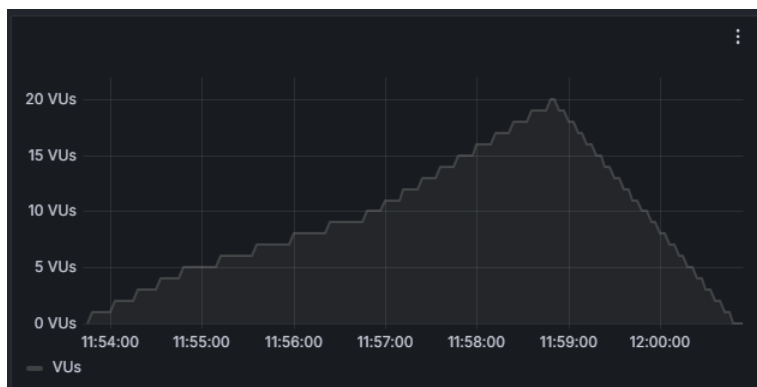
Spike Testing

```
data_received...................: 1.9 MB 7.0 kB/s
data_sent.......................: 134 kB 498 B/s
http_req_blocked................: avg=44.12µs min=0s     med=0s     max=6.28ms p(90)=0s      p(95)=505.4µs
http_req_connecting.............: avg=39.13µs min=0s     med=0s     max=6.28ms p(90)=0s      p(95)=504.7µs
http_req_duration...............: avg=3.87s   min=0s     med=0s     max=1m0s   p(90)=0s      p(95)=45.65s
  { expected_response:true }...: avg=26.37s   min=624.5ms med=25.92s max=59.19s p(90)=50.54s p(95)=55.42s
✓ { type:GET }..................: avg=0s      min=0s     med=0s     max=0s     p(90)=0s      p(95)=0s
http_req_failed.................: 96.87% ✓ 4768        ✗ 154
http_req_receiving..............: avg=84.06µs min=0s     med=0s     max=8.54ms p(90)=0s      p(95)=0s
http_req_sending................: avg=9.8µs   min=0s     med=0s     max=1ms    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=3.87s   min=0s     med=0s     max=1m0s   p(90)=0s      p(95)=45.65s
✗ http_reqs.....................: 4922    18.270007/s
iteration_duration..............: avg=4.96s   min=1s     med=1.01s  max=1m1s   p(90)=1.01s  p(95)=1m1s
iterations......................: 4808    17.84685/s
vus.............................: 2       min=2       max=200
vus_max.........................: 200     min=200     max=200
```
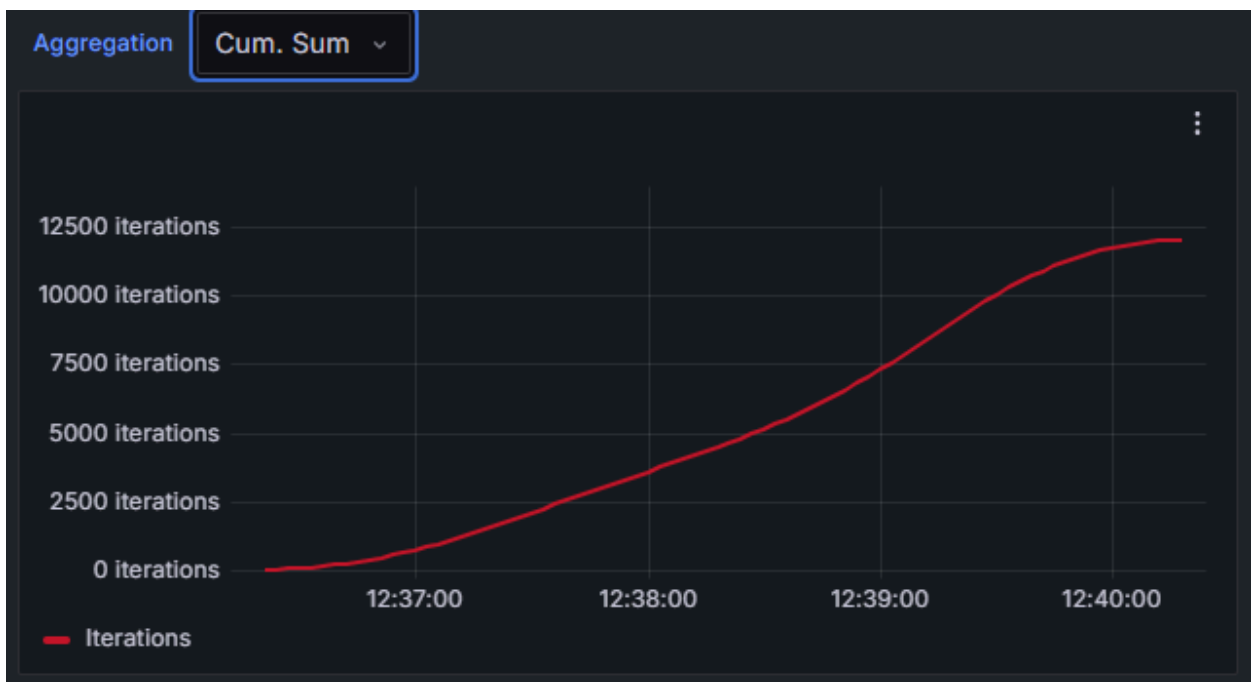
Concurrency Test

```
scenarios: (100.00%) 1 scenario, 50 max VUs, 7m30s max duration (incl. graceful stop):
         * default: Up to 50 looping VUs for 7m0s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)


✓ status is 200

checks.........................: 100.00% ✓ 13652      X 0
data_received..................: 20 MB   47 kB/s
data_sent......................: 652 kB  1.6 kB/s
http_req_blocked...............: avg=3.03ms   min=0s      med=0s      max=1.94s  p(90)=0s       p(95)=0s
http_req_connecting............: avg=1.04ms   min=0s      med=0s      max=1.39s  p(90)=0s       p(95)=0s
http_req_duration..............: avg=312.55ms min=226.04ms med=282.45ms max=2.67s  p(90)=371.11ms p(95)=466.8ms
  { expected_response:true }...: avg=312.55ms min=226.04ms med=282.45ms max=2.67s  p(90)=371.11ms p(95)=466.8ms
http_req_failed................: 0.00%   ✓ 0          X 13652
http_req_receiving.............: avg=269.88µs min=0s      med=70.2µs  max=5.98ms p(90)=807.3µs  p(95)=957.74µs
http_req_sending...............: avg=142.61µs min=0s      med=0s      max=7.89ms p(90)=522.99µs p(95)=613.5µs
http_req_tls_handshaking.......: avg=1.97ms   min=0s      med=0s      max=771.69ms p(90)=0s     p(95)=0s
http_req_waiting...............: avg=312.14ms min=225.54ms med=282.03ms max=2.67s  p(90)=370.72ms p(95)=466.11ms
http_reqs......................: 13652   32.48969/s
iteration_duration.............: avg=1.32s    min=1.22s   med=1.29s   max=3.68s  p(90)=1.38s    p(95)=1.48s
iterations.....................: 13652   32.48969/s
vus............................: 1       min=1       max=50
vus_max........................: 50      min=50      max=50
```

http://127.0.0.1:8000/customers/

Load Testing


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     execution: local
        script: loadtest.js
        output: -

     scenarios: (100.00%) 1 scenario, 100 max VUs, 3m30s max duration (incl. graceful stop):
              * default: Up to 100 looping VUs for 3m0s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```
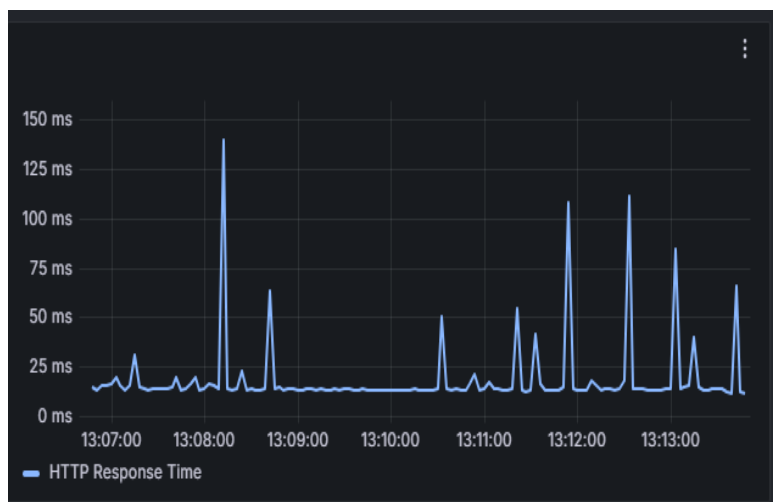
```
     data_received..................: 250 kB 1.2 kB/s
     data_sent......................: 42 kB  202 B/s
     http_req_blocked...............: avg=1.45ms   min=0s       med=1.18ms max=8.11ms  p(90)=2.48ms  p(95)=3.24ms
     http_req_connecting............: avg=1.24ms   min=0s       med=1.08ms max=8.11ms  p(90)=2.13ms  p(95)=2.53ms
     http_req_duration..............: avg=51.49s   min=918.87ms med=1m0s   max=1m0s    p(90)=1m0s    p(95)=1m0s
       { expected_response:true }...: avg=30.36s   min=2.99s    med=29.57s max=59.08s  p(90)=51.25s  p(95)=56.51s
     http_req_failed................: 84.50% ✓ 169      ✗ 31
     http_req_receiving.............: avg=1.44ms   min=0s       med=0s     max=39.31ms p(90)=7.74ms  p(95)=8.77ms
     http_req_sending...............: avg=118.56µs min=0s       med=0s     max=1.06ms  p(90)=541.5µs p(95)=577.31µs
     http_req_tls_handshaking.......: avg=0s       min=0s       med=0s     max=0s      p(90)=0s      p(95)=0s
     http_req_waiting...............: avg=51.49s   min=918.87ms med=1m0s   max=1m0s    p(90)=1m0s    p(95)=1m0s
     http_reqs......................: 200    0.952313/s
     iteration_duration.............: avg=1m0s     min=12.95s   med=1m1s   max=1m1s    p(90)=1m1s    p(95)=1m1s
     iterations.....................: 173    0.82375/s
     vus............................: 53     min=1        max=99
     vus_max........................: 100    min=100      max=100
```

Stress Test


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  execution: local
     script: StressTest.js
     output: -

  scenarios: (100.00%) 1 scenario, 20 max VUs, 4m0s max duration (incl. graceful stop):
           * default: Up to 20 looping VUs for 3m30s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)


    http_req_duration..............: avg=27.1s     min=10.72s   med=25.46s max=1m0s    p(90)=42.95s   p(95)=44.36s
      { expected_response:true }...: avg=26.78s    min=10.72s   med=24.27s max=47.36s  p(90)=43.59s   p(95)=44.33s
    http_req_failed................: 25.33% ✓ 19        ✗ 56
    http_req_receiving.............: avg=5.83ms    min=0s       med=6.62ms max=25.3ms  p(90)=10.37ms  p(95)=11.44ms
    http_req_sending...............: avg=119.98µs  min=0s       med=0s     max=767.9µs p(90)=552.62µs p(95)=587.89µs
    http_req_tls_handshaking.......: avg=0s        min=0s       med=0s     max=0s      p(90)=0s       p(95)=0s
    http_req_waiting...............: avg=27.09s    min=10.71s   med=25.45s max=1m0s    p(90)=42.94s   p(95)=44.35s
    http_reqs......................: 75       0.3125/s
    iteration_duration.............: avg=52.02s    min=26.93s   med=59.16s max=1m1s    p(90)=1m1s     p(95)=1m1s
    iterations.....................: 34       0.141666/s
    vus............................: 1        min=1      max=20
    vus_max........................: 20       min=20     max=20
```



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    execution: cloud
       script: StressTest.js
       output: https://jacherjay193021.grafana.net/a/k6-app/runs/2739170

    scenarios: (100.00%) 1 scenario, 20 max VUs, 4m0s max duration (incl. graceful stop):
             * default: Up to 20 looping VUs for 3m30s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```
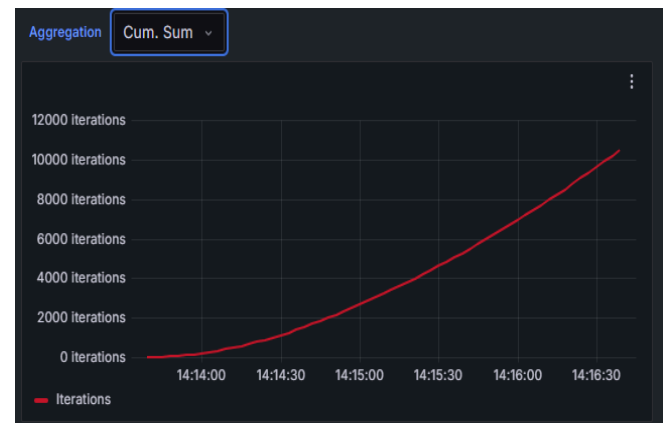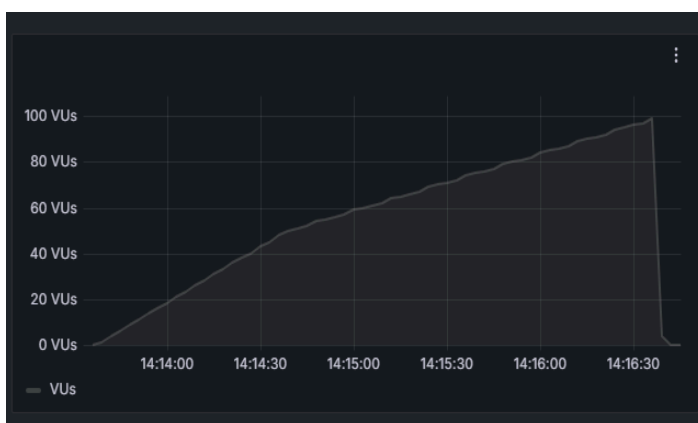
SpikeTest

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    execution: local
       script: spike.js
       output: -

    scenarios: (100.00%) 1 scenario, 10 max VUs, 1m20s max duration (incl. graceful stop):
             * default: Up to 10 looping VUs for 50s over 4 stages (gracefulRampDown: 30s, gracefulStop: 30s)


  data_received..................: 658 kB  8.7 kB/s
  data_sent......................: 17 kB   225 B/s
  http_req_blocked...............: avg=1.98ms    min=509.7µs med=1.12ms max=13.29ms p(90)=2.88ms   p(95)=6.87ms
  http_req_connecting............: avg=1.36ms    min=508.1µs med=1.05ms max=13.29ms p(90)=1.67ms   p(95)=1.97ms
  http_req_duration..............: avg=12.63s    min=1.69s   med=12.11s max=22.21s  p(90)=21.58s   p(95)=21.9s
    { expected_response:true }...: avg=12.63s    min=1.69s   med=12.11s max=22.21s  p(90)=21.58s   p(95)=21.9s
  ✓ { type:GET }.................: avg=0s        min=0s      med=0s     max=0s      p(90)=0s       p(95)=0s
  http_req_failed................: 0.00%   ✓ 0           ✗ 33
  http_req_receiving.............: avg=10.7ms    min=4.65ms  med=8.31ms max=71.61ms p(90)=13.05ms  p(95)=16.92ms
  http_req_sending...............: avg=186.35µs  min=0s      med=0s     max=1.41ms  p(90)=552.26µs p(95)=737.35µs
  http_req_tls_handshaking.......: avg=0s        min=0s      med=0s     max=0s      p(90)=0s       p(95)=0s
  http_req_waiting...............: avg=12.62s    min=1.68s   med=12.1s  max=22.21s  p(90)=21.57s   p(95)=21.89s
  ✗ http_reqs....................: 33      0.434136/s
  iteration_duration.............: avg=23.66s    min=5.84s   med=22.79s max=38.48s  p(90)=37.23s   p(95)=37.96s
  iterations.....................: 14      0.184179/s
  vus............................: 1       min=1         max=10
  vus_max........................: 10      min=10        max=10
```
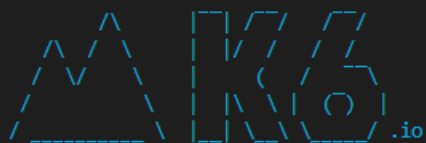
```
  execution: cloud
     script: spike.js
     output: https://jacherjay193021.grafana.net/a/k6-app/runs/2739229

  scenarios: (100.00%) 1 scenario, 10 max VUs, 1m20s max duration (incl. graceful stop):
           * default: Up to 10 looping VUs for 50s over 4 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```
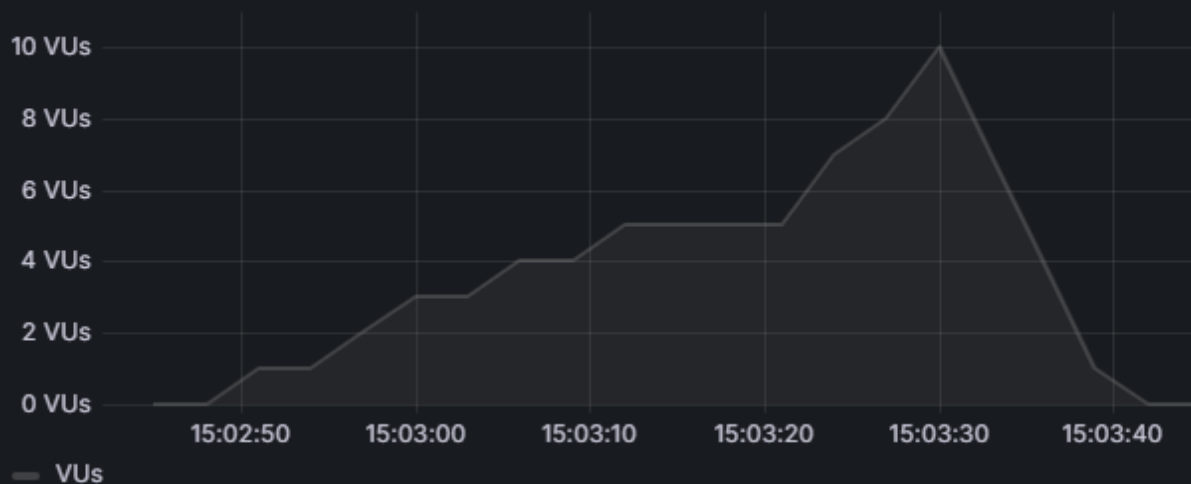

Aggregation   Rate ⌄
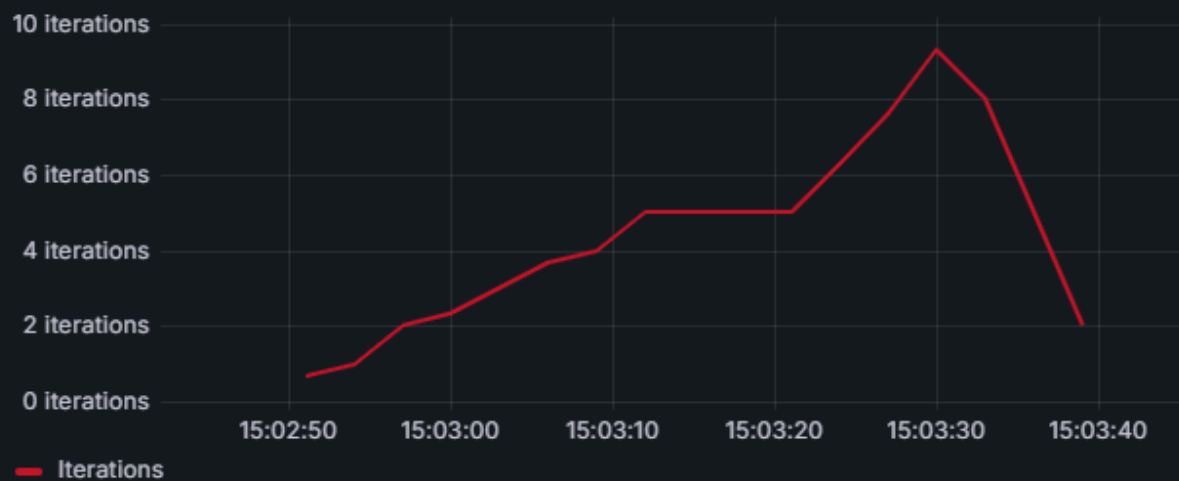
Concurrency Test

```
✓ status is 200

checks.........................: 100.00% ✓ 1        ✗ 0
data_received..................: 74 kB   1.4 kB/s
data_sent......................: 22 kB   408 B/s
http_req_blocked...............: avg=1.81ms    min=507.9µs med=1.23ms max=13.45ms p(90)=2.02ms   p(95)=2.3ms
http_req_connecting............: avg=1.44ms    min=0s      med=1.04ms max=11.11ms p(90)=1.9ms    p(95)=2ms
http_req_duration..............: avg=24.93s    min=3.87s   med=24.3s  max=46.71s  p(90)=42.43s   p(95)=44.97s
  { expected_response:true }...: avg=24.93s    min=3.87s   med=24.3s  max=46.71s  p(90)=42.43s   p(95)=44.97s
http_req_failed................: 0.00%   ✓ 0        ✗ 22
http_req_receiving.............: avg=6.35ms    min=993.1µs med=5.91ms max=11.22ms p(90)=9.27ms   p(95)=10.79ms
http_req_sending...............: avg=517.99µs  min=0s      med=0s     max=8.34ms  p(90)=619.52µs p(95)=990.72µs
http_req_tls_handshaking.......: avg=0s        min=0s      med=0s     max=0s      p(90)=0s       p(95)=0s
http_req_waiting...............: avg=24.92s    min=3.85s   med=24.29s max=46.7s   p(90)=42.42s   p(95)=44.97s
http_reqs......................: 22      0.401394/s
iteration_duration.............: avg=50s       min=50s     med=50s    max=50s     p(90)=50s      p(95)=50s
iterations.....................: 1       0.018245/s
vus............................: 5       min=5       max=50
vus_max........................: 50      min=50      max=50
```

http://127.0.0.1:8000/units/centimeters

LoadTest

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     execution: local
        script: load.js
        output: -

     scenarios: (100.00%) 1 scenario, 10 max VUs, 1m3s max duration (incl. graceful stop):
              * default: Up to 10 looping VUs for 33s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)


     data_received..................: 358 kB 5.7 kB/s
     data_sent......................: 13 kB  212 B/s
     http_req_blocked...............: avg=1.25ms    min=508.9µs  med=1.09ms max=2.46ms  p(90)=1.7ms    p(95)=1.86ms
     http_req_connecting............: avg=1.05ms    min=507.29µs med=1.02ms max=2.39ms  p(90)=1.55ms   p(95)=1.61ms
     http_req_duration..............: avg=15.4s     min=2s       med=15.72s max=27.8s   p(90)=26.86s   p(95)=27.52s
       { expected_response:true }...: avg=15.4s     min=2s       med=15.72s max=27.8s   p(90)=26.86s   p(95)=27.52s
     http_req_failed................: 0.00%  ✓ 0          ✗ 22
     http_req_receiving.............: avg=7.84ms    min=4.35ms   med=7.56ms max=14.31ms p(90)=9.35ms   p(95)=11.9ms
     http_req_sending...............: avg=233.91µs min=0s        med=0s      max=1.51ms  p(90)=623.49µs p(95)=670.8µs
     http_req_tls_handshaking.......: avg=0s        min=0s       med=0s      max=0s      p(90)=0s       p(95)=0s
     http_req_waiting...............: avg=15.39s    min=2s       med=15.71s max=27.79s  p(90)=26.85s   p(95)=27.51s
     http_reqs......................: 22     0.349131/s
     iteration_duration.............: avg=25.65s    min=4.88s    med=24.48s max=44.79s  p(90)=42.88s   p(95)=43.84s
     iterations.....................: 8      0.126957/s
     vus............................: 1      min=1        max=10
     vus_max........................: 10     min=10       max=10
```
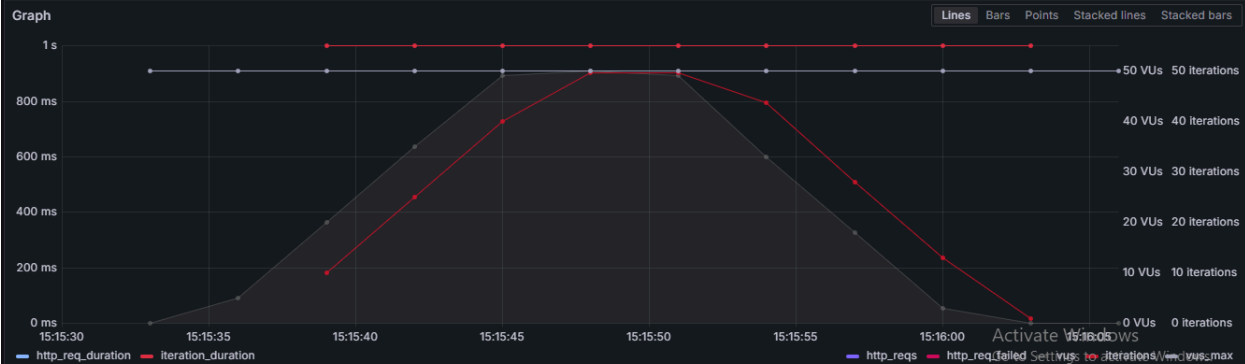
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  execution: cloud
     script: load.js
     output: https://jacherjay193021.grafana.net/a/k6-app/runs/2739329

  scenarios: (100.00%) 1 scenario, 10 max VUs, 1m3s max duration (incl. graceful stop):
           * default: Up to 10 looping VUs for 33s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```

Stress Test

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    /  \/    \    |     (   /   ‾‾\
   /          \   |  |\  \ |  (‾)  |
  / _____ \  |__| \__\ \_____/ .io

     execution: local
        script: stress.js
        output: -

     scenarios: (100.00%) 1 scenario, 10 max VUs, 1m0s max duration (incl. graceful stop):
              * default: Up to 10 looping VUs for 30s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)


     data_received..................: 398 kB 6.6 kB/s
     data_sent......................: 12 kB  207 B/s
     http_req_blocked...............: avg=1.46ms    min=506.29µs med=1.08ms max=9.17ms  p(90)=2.11ms   p(95)=3.31ms
     http_req_connecting............: avg=964.98µs  min=506µs    med=1.02ms max=1.98ms  p(90)=1.4ms    p(95)=1.61ms
     http_req_duration..............: avg=16.35s    min=3.91s    med=18.48s max=23.95s  p(90)=22.79s   p(95)=23.23s
       { expected_response:true }...: avg=16.35s    min=3.91s    med=18.48s max=23.95s  p(90)=22.79s   p(95)=23.23s
     http_req_failed................: 0.00% ✓ 0           ✗ 22
     http_req_receiving.............: avg=7.17ms    min=2.93ms   med=7.06ms max=14.1ms  p(90)=9.28ms   p(95)=11.15ms
     http_req_sending...............: avg=116.76µs  min=0s       med=0s     max=864.3µs p(90)=553.5µs  p(95)=599.22µs
     http_req_tls_handshaking.......: avg=0s        min=0s       med=0s     max=0s      p(90)=0s       p(95)=0s
     http_req_waiting...............: avg=16.34s    min=3.89s    med=18.47s max=23.94s  p(90)=22.78s   p(95)=23.22s
     http_reqs......................: 22     0.366622/s
     iteration_duration.............: avg=31.46s    min=14.03s   med=35.51s max=44.1s   p(90)=42.23s   p(95)=43.16s
     iterations.....................: 9      0.149982/s
     vus............................: 2      min=1        max=10
     vus_max........................: 10     min=10       max=10
```
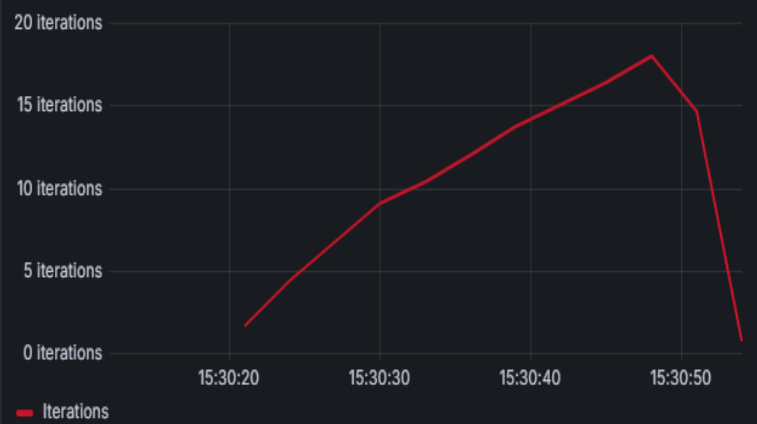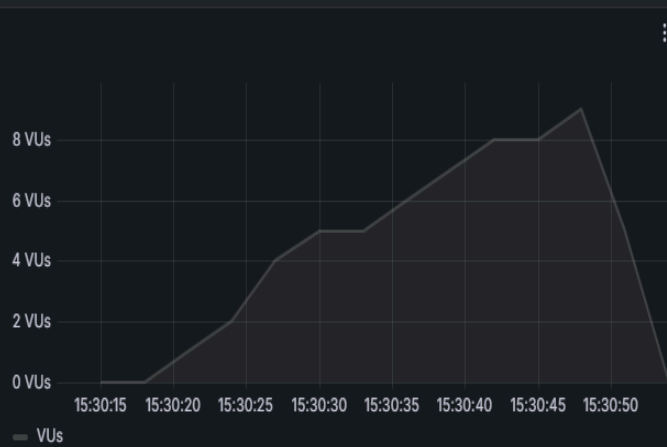
```
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     /\  /  \     |  |/  /   /  /
    /  \/    \    |     (   /   ‾‾\
   /          \   |  |\  \ |  (‾)  |
  / _____ \  |__| \__\ \_____/ .io

     execution: cloud
        script: stress.js
        output: https://jacherjay193021.grafana.net/a/k6-app/runs/2739523

     scenarios: (100.00%) 1 scenario, 10 max VUs, 1m0s max duration (incl. graceful stop):
              * default: Up to 10 looping VUs for 30s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```

Spike Test


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    /          \   |  |\  \  |  (‾)  |
   / _____ \  |__| \__\  \_____/ .io

     execution: local
        script: spike.js
        output: -

     scenarios: (100.00%) 1 scenario, 10 max VUs, 50s max duration (incl. graceful stop):
              * default: Up to 10 looping VUs for 20s over 4 stages (gracefulRampDown: 30s, gracefulStop: 30s)

     data_received..................: 871 kB  28 kB/s
     data_sent......................: 19 kB   623 B/s
     http_req_blocked...............: avg=500.35µs min=0s      med=506.45µs max=1.53ms   p(90)=1.06ms   p(95)=1.19ms
     http_req_connecting............: avg=427.79µs min=0s      med=505.25µs max=1.53ms   p(90)=1ms      p(95)=1.06ms
     http_req_duration..............: avg=4.8s     min=615.62ms med=4.9s    max=8.2s     p(90)=7.98s    p(95)=7.99s
       { expected_response:true }...: avg=4.8s     min=615.62ms med=4.9s    max=8.2s     p(90)=7.98s    p(95)=7.99s
   ✓ { type:GET }..................: avg=0s       min=0s      med=0s       max=0s       p(90)=0s       p(95)=0s
     http_req_failed................: 0.00%  ✓ 0          ✗ 40
     http_req_receiving.............: avg=2.87ms   min=1.86ms  med=2.61ms   max=6.36ms   p(90)=3.77ms   p(95)=4.31ms
     http_req_sending...............: avg=97.32µs  min=0s      med=0s       max=620.29µs p(90)=509.56µs p(95)=529.28µs
     http_req_tls_handshaking.......: avg=0s       min=0s      med=0s       max=0s       p(90)=0s       p(95)=0s
     http_req_waiting...............: avg=4.79s    min=613.03ms med=4.9s    max=8.2s     p(90)=7.98s    p(95)=7.99s
   ✗ http_reqs.....................: 40      1.305459/s
     iteration_duration.............: avg=10.61s   min=2.34s   med=11.99s   max=15.79s   p(90)=15.2s    p(95)=15.39s
     iterations.....................: 20      0.652729/s
     vus............................: 1       min=1       max=10
     vus_max........................: 10      min=10      max=10
```
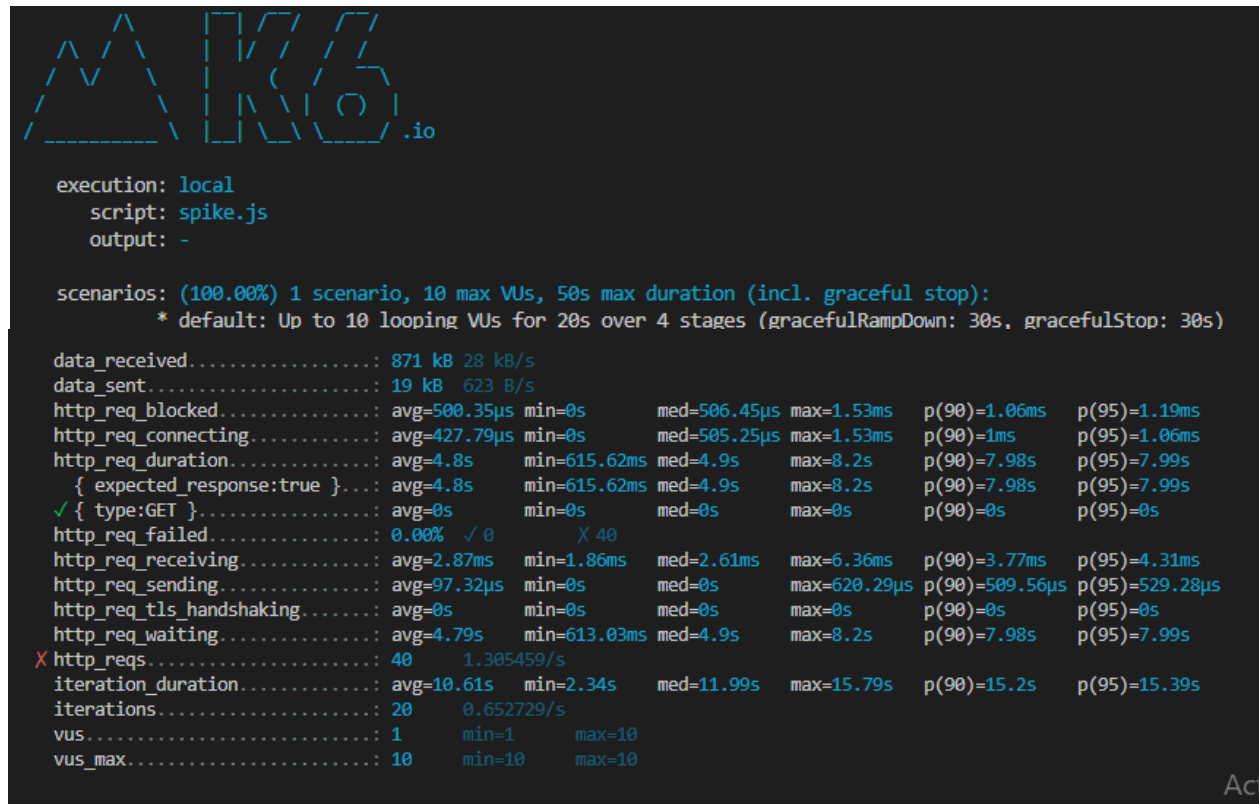
Concurrency Test


```
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  /  \/    \    |      |  /  ‾‾\
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/ _____ \  |__|  \__\ \_____/ .io

  execution: local
     script: contest.js
     output: -

  scenarios: (100.00%) 1 scenario, 50 max VUs, 46s max duration (incl. graceful stop):
           * default: Up to 50 looping VUs for 16s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```

```
data_received..................: 32 kB 698 B/s
data_sent......................: 23 kB 497 B/s
http_req_blocked...............: avg=2.09ms    min=506.29µs med=1.65ms  max=8.76ms  p(90)=3.23ms   p(95)=6.52ms
http_req_connecting............: avg=1.49ms    min=505.29µs med=697.5µs max=6.52ms  p(90)=2.72ms   p(95)=3.23ms
http_req_duration..............: avg=25.46s    min=6.31s    med=26.05s  max=40.43s  p(90)=38.32s   p(95)=39.36s
  { expected_response:true }...: avg=25.46s    min=6.31s    med=26.05s  max=40.43s  p(90)=38.32s   p(95)=39.36s
http_req_failed................: 0.00% ✓ 0          ✗ 21
http_req_receiving.............: avg=7.6ms     min=1.95ms   med=5.81ms  max=21.15ms p(90)=15.21ms  p(95)=17.87ms
http_req_sending...............: avg=216.84µs  min=0s       med=0s      max=1.38ms  p(90)=617.8µs  p(95)=992.5µs
http_req_tls_handshaking.......: avg=0s        min=0s       med=0s      max=0s      p(90)=0s       p(95)=0s
http_req_waiting...............: avg=25.45s    min=6.29s    med=26.04s  max=40.42s  p(90)=38.31s   p(95)=39.35s
http_reqs......................: 21     0.456388/s
vus............................: 3      min=3        max=50
vus_max........................: 50     min=50       max=50
```



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/ _____ \  |__|  \__\ \_____/ .io

  execution: cloud
     script: contest.js
     output: https://jacherjay193021.grafana.net/a/k6-app/runs/2739634

  scenarios: (100.00%) 1 scenario, 50 max VUs, 46s max duration (incl. graceful stop):
           * default: Up to 50 looping VUs for 16s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```
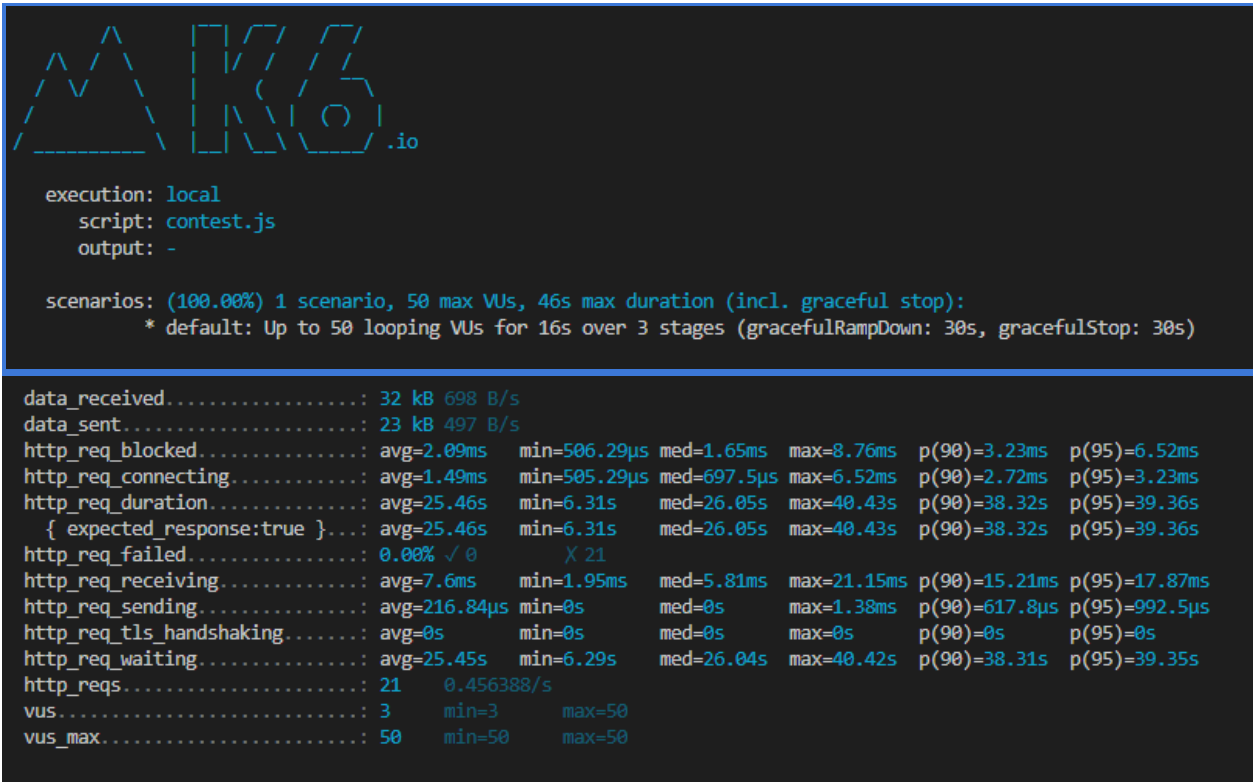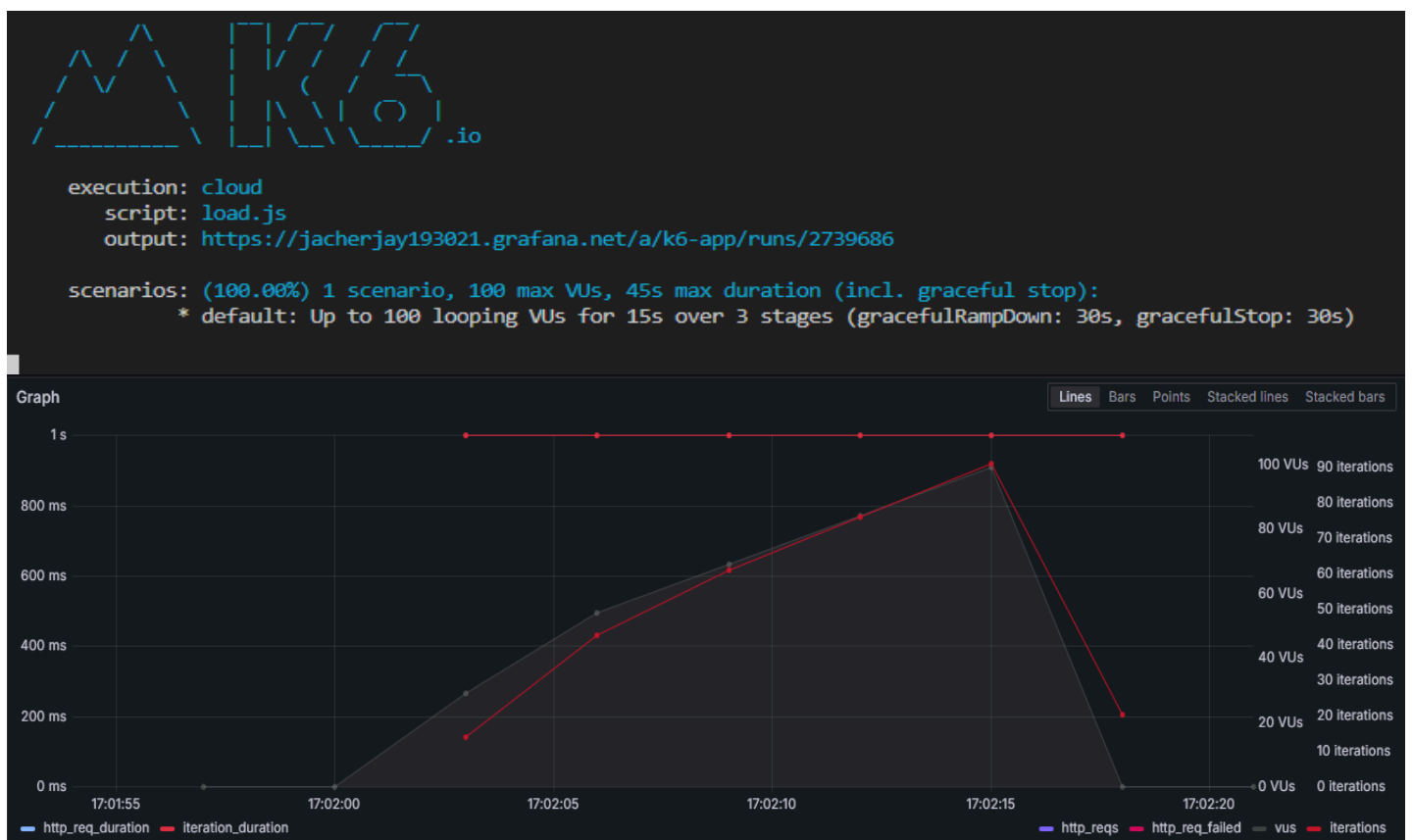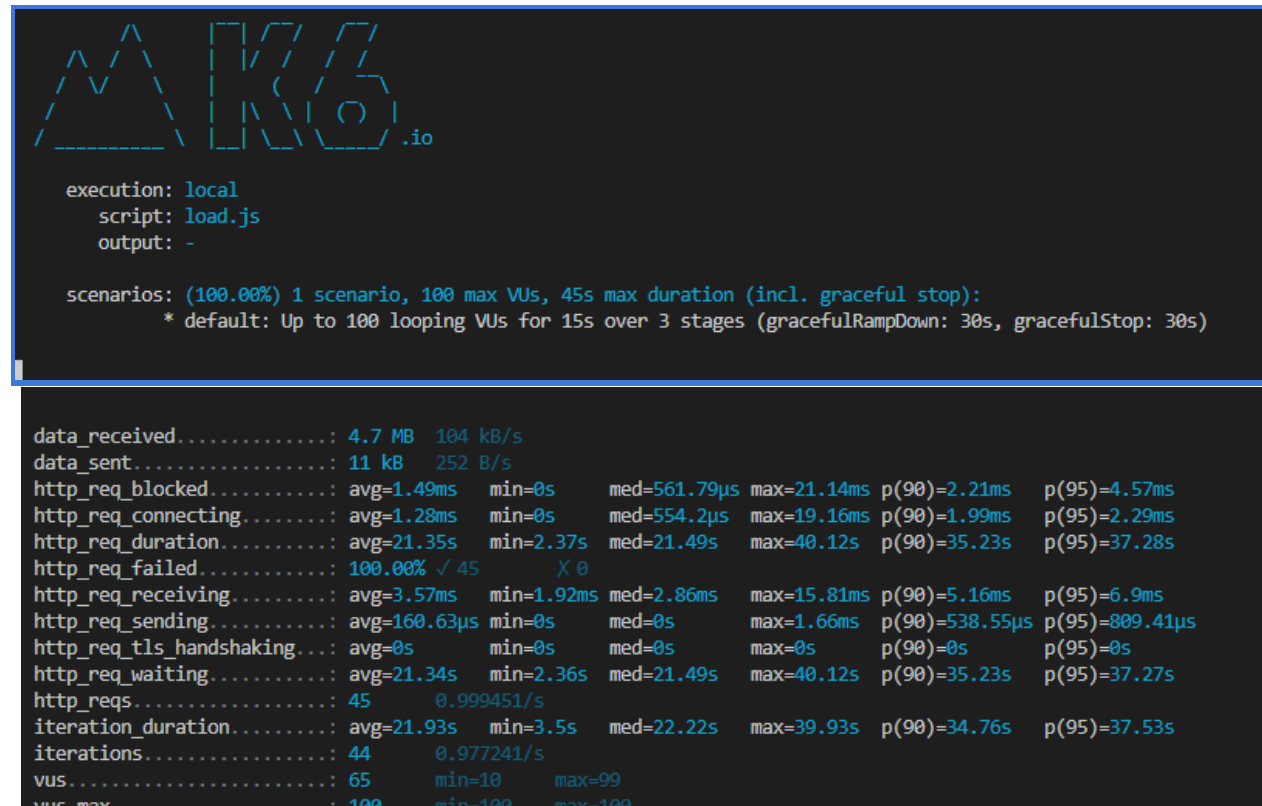
http://127.0.0.1:8000/units/centimeters/edit-1

Load Test


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     execution: local
        script: load.js
        output: -

     scenarios: (100.00%) 1 scenario, 100 max VUs, 45s max duration (incl. graceful stop):
              * default: Up to 100 looping VUs for 15s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```

```
data_received..............: 4.7 MB  104 kB/s
data_sent..................: 11 kB   252 B/s
http_req_blocked...........: avg=1.49ms   min=0s      med=561.79µs max=21.14ms p(90)=2.21ms   p(95)=4.57ms
http_req_connecting........: avg=1.28ms   min=0s      med=554.2µs  max=19.16ms p(90)=1.99ms   p(95)=2.29ms
http_req_duration..........: avg=21.35s   min=2.37s   med=21.49s   max=40.12s  p(90)=35.23s   p(95)=37.28s
http_req_failed............: 100.00% ✓ 45        ✗ 0
http_req_receiving.........: avg=3.57ms   min=1.92ms  med=2.86ms   max=15.81ms p(90)=5.16ms   p(95)=6.9ms
http_req_sending...........: avg=160.63µs min=0s      med=0s       max=1.66ms  p(90)=538.55µs p(95)=809.41µs
http_req_tls_handshaking...: avg=0s       min=0s      med=0s       max=0s      p(90)=0s       p(95)=0s
http_req_waiting...........: avg=21.34s   min=2.36s   med=21.49s   max=40.12s  p(90)=35.23s   p(95)=37.27s
http_reqs..................: 45      0.999451/s
iteration_duration.........: avg=21.93s   min=3.5s    med=22.22s   max=39.93s  p(90)=34.76s   p(95)=37.53s
iterations.................: 44      0.977241/s
vus........................: 65      min=10      max=99
vus_max....................: 100     min=100     max=100
```



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/ _____ \  |__| \__\ \_____/ .io

     execution: cloud
        script: load.js
        output: https://jacherjay193021.grafana.net/a/k6-app/runs/2739686

     scenarios: (100.00%) 1 scenario, 100 max VUs, 45s max duration (incl. graceful stop):
              * default: Up to 100 looping VUs for 15s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```

Stress Test

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    execution: local
        script: stress.js
        output: -

    scenarios: (100.00%) 1 scenario, 20 max VUs, 56s max duration (incl. graceful stop):
             * default: Up to 20 looping VUs for 26s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)

  data_received..............: 4.5 MB  110 kB/s
  data_sent..................: 4.5 kB  110 B/s
  http_req_blocked...........: avg=1.3ms    min=0s     med=585.3µs max=14.68ms p(90)=1.92ms   p(95)=3.25ms
  http_req_connecting........: avg=1.13ms   min=0s     med=578µs   max=14.68ms p(90)=1.51ms   p(95)=1.94ms
  http_req_duration..........: avg=8.92s    min=1.36s  med=9.65s   max=14.61s  p(90)=13.94s   p(95)=14.14s
  http_req_failed............: 100.00% ✓ 43         ✗ 0
  http_req_receiving.........: avg=3.22ms   min=998.2µs med=2.7ms   max=9.74ms  p(90)=5.02ms   p(95)=5.49ms
  http_req_sending...........: avg=121.36µs min=0s     med=0s      max=1.04ms  p(90)=516.28µs p(95)=610.58µs
  http_req_tls_handshaking...: avg=0s       min=0s     med=0s      max=0s      p(90)=0s       p(95)=0s
  http_req_waiting...........: avg=8.91s    min=1.35s  med=9.65s   max=14.61s  p(90)=13.93s   p(95)=14.14s
  http_reqs..................: 43      1.057978/s
  iteration_duration.........: avg=9.93s    min=2.37s  med=10.66s  max=15.62s  p(90)=14.94s   p(95)=15.15s
  iterations.................: 43      1.057978/s
  vus........................: 1       min=1      max=19
  vus_max....................: 20      min=20     max=20
```
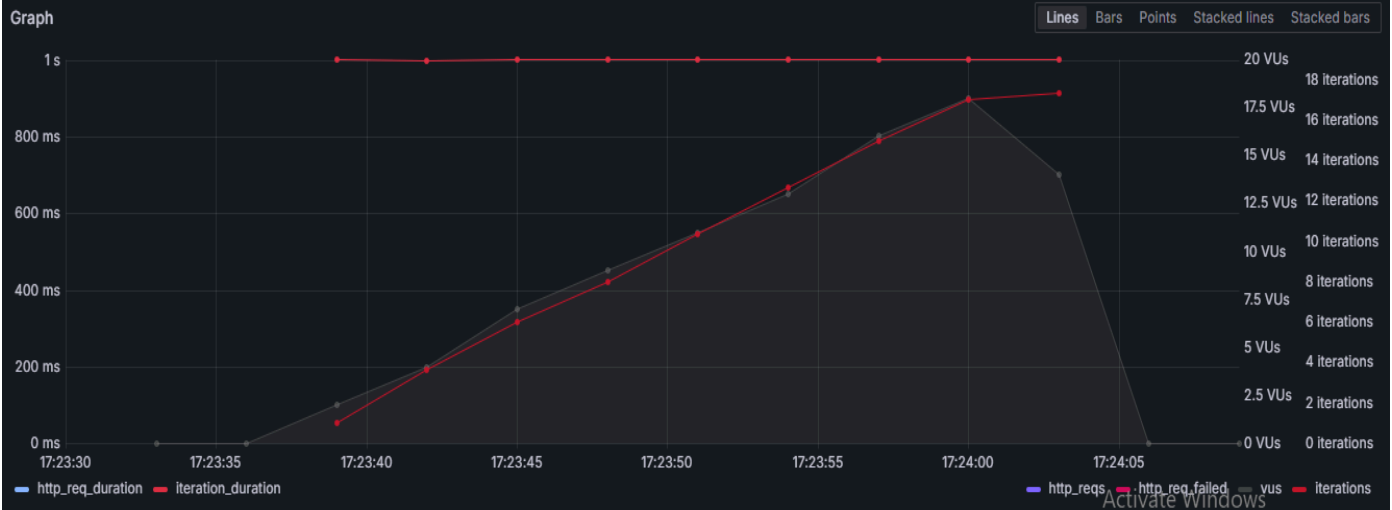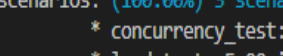
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    execution: cloud
        script: stress.js
        output: https://jacherjay193021.grafana.net/a/k6-app/runs/2739751

    scenarios: (100.00%) 1 scenario, 20 max VUs, 56s max duration (incl. graceful stop):
             * default: Up to 20 looping VUs for 26s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)
```

Concurrency test

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  execution: local
     script: contest.js
     output: -

  scenarios: (100.00%) 1 scenario, 50 max VUs, 55s max duration (incl. graceful stop):
           * default: Up to 50 looping VUs for 25s over 3 stages (gracefulRampDown: 30s, gracefulStop: 30s)


X status is 200
  ↳  0% — ✓ 0 / X 18

checks.....................: 0.00%   ✓ 0          X 18
data_received..............: 1.9 MB  34 kB/s
data_sent..................: 5.2 kB  95 B/s
http_req_blocked...........: avg=2.23ms    min=509.8µs med=1.2ms    max=13.68ms p(90)=4.48ms  p(95)=7.23ms
http_req_connecting........: avg=1.39ms    min=110.5µs med=686.09µs max=6.01ms  p(90)=3.3ms   p(95)=4.66ms
http_req_duration..........: avg=26.57s    min=7.39s   med=25.89s   max=47.74s  p(90)=44.11s  p(95)=46.05s
http_req_failed............: 100.00% ✓ 18        X 0
http_req_receiving.........: avg=7.84ms    min=3.86ms  med=6.83ms   max=14.48ms p(90)=12.65ms p(95)=13.72ms
http_req_sending...........: avg=439.22µs  min=0s      med=95.85µs  max=2.74ms  p(90)=1.01ms  p(95)=2.11ms
http_req_tls_handshaking...: avg=0s        min=0s      med=0s       max=0s      p(90)=0s      p(95)=0s
http_req_waiting...........: avg=26.56s    min=7.37s   med=25.88s   max=47.73s  p(90)=44.1s   p(95)=46.04s
http_reqs..................: 18      0.327174/s
iteration_duration.........: avg=26.34s    min=8.45s   med=25.86s   max=46.75s  p(90)=42.69s  p(95)=44.89s
iterations.................: 17      0.308998/s
vus........................: 1       min=1       max=50
vus_max....................: 50      min=50      max=50
```

http://127.0.0.1:8000/purchases-0
Load,stress,concurrency

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  execution: local
     script: Alltest.js
     output: -

  scenarios: (100.00%) 3 scenarios, 70 max VUs, 50s max duration (incl. graceful stop):
           * concurrency_test: 10.00 iterations/s for 10s (maxVUs: 5-50, exec: concurrencyTest, gracefulStop: 30s)
           * load_test: 5.00 iterations/s for 20s (maxVUs: 3-10, exec: loadTest, gracefulStop: 30s)
           * stress_test: 5.00 iterations/s for 15s (maxVUs: 2-10, exec: stressTest, gracefulStop: 30s)
```
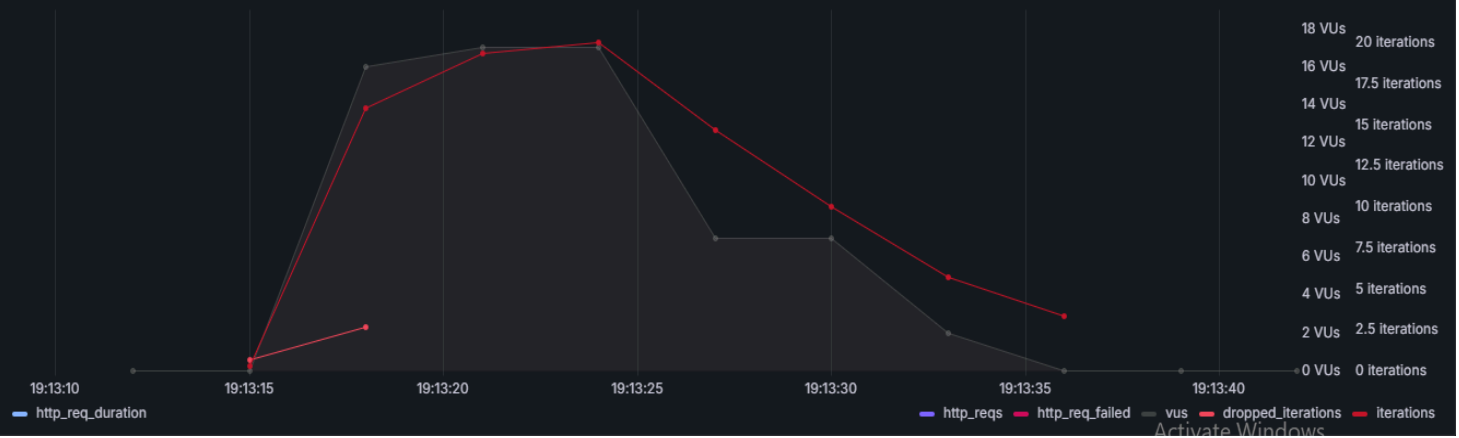
```
    X status is 200
     ↳  0% — ✓ 0 / X 7

    checks.....................: 0.00%     ✓ 0         X 7
    data_received..............: 1.7 MB    33 kB/s
    data_sent..................: 6.7 kB    135 B/s
    dropped_iterations.........: 204       4.078353/s
    group_duration.............: avg=26.1s    min=7.96s    med=25.34s max=43.03s  p(90)=39.98s  p(95)=42.25s
    http_req_blocked...........: avg=2.55ms   min=576.2µs med=1.42ms  max=8.13ms  p(90)=7.86ms  p(95)=7.96ms
    http_req_connecting........: avg=1.2ms    min=576.2µs med=1.17ms  max=2.3ms   p(90)=1.84ms  p(95)=2.04ms
    http_req_duration..........: avg=25.24s   min=6.93s    med=24.57s max=42.52s  p(90)=39.21s  p(95)=41.36s
    http_req_failed............: 100.00% ✓ 16          X 0
    http_req_receiving.........: avg=10.92ms  min=3.36ms  med=7.85ms  max=47.51ms p(90)=20.13ms p(95)=34.46ms
    http_req_sending...........: avg=189.27µs min=0s       med=0s      max=878.6µs p(90)=878.6µs p(95)=878.6µs
    http_req_tls_handshaking...: avg=0s       min=0s       med=0s      max=0s      p(90)=0s      p(95)=0s
    http_req_waiting...........: avg=25.23s   min=6.89s    med=24.57s max=42.47s  p(90)=39.21s  p(95)=41.35s
    http_reqs..................: 16        0.319871/s
    iteration_duration.........: avg=26.1s    min=7.97s    med=25.34s max=43.03s  p(90)=39.98s  p(95)=42.25s
    iterations.................: 16        0.319871/s
    vus........................: 7         min=7         max=70
    vus_max....................: 70        min=16        max=70


running (50.0s), 00/70 VUs, 16 complete and 58 interrupted iterations
concurrency_test ✓ [========================================] 44/50 VUs  10s  10.00 iters/s
load_test        ✓ [========================================] 07/10 VUs  20s  5.00 iters/s
stress_test      ✓ [========================================] 07/10 VUs  15s  5.00 iters/s
```

Graph   Lines Bars Points Stacked lines Stacked bars

19:13:10   19:13:15   19:13:20   19:13:25   19:13:30   19:13:35   19:13:40

— http_req_duration   — http_reqs — http_req_failed — vus — dropped_iterations — iterations

18 VUs 20 iterations
16 VUs 17.5 iterations
14 VUs 15 iterations
12 VUs 12.5 iterations
10 VUs 10 iterations
8 VUs   7.5 iterations
6 VUs   5 iterations
4 VUs   2.5 iterations
2 VUs   0 iterations
0 VUs

Activate Windows

http://127.0.0.1:8000/suppliers-1


```
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 /          \   |  |\  \ |  (‾)  |
/ _____ \  |__| \__\ \_____/ .io

  execution: local
     script: All.js
     output: -

  scenarios: (100.00%) 3 scenarios, 70 max VUs, 50s max duration (incl. graceful stop):
           * concurrency_test: 10.00 iterations/s for 10s (maxVUs: 5-50, exec: concurrencyTest, gracefulStop: 30s)
           * load_test: 5.00 iterations/s for 20s (maxVUs: 3-10, exec: loadTest, gracefulStop: 30s)
           * stress_test: 5.00 iterations/s for 15s (maxVUs: 2-10, exec: stressTest, gracefulStop: 30s)

     ✗ status is 200
      ↳  0% — ✓ 0 / ✗ 34

     checks.........................: 0.00%   ✓ 0        ✗ 34
     data_received..................: 5.8 MB  117 kB/s
     data_sent......................: 7.4 kB  147 B/s
     dropped_iterations.............: 196     3.919743/s
     group_duration.................: avg=21.42s   min=6.88s  med=21.79s   max=38.54s p(90)=31.77s p(95)=32.82s
     http_req_blocked...............: avg=839.32µs min=0s     med=791.3µs  max=4.09ms p(90)=1.49ms p(95)=1.76ms
     http_req_connecting............: avg=735.02µs min=0s     med=571.29µs max=3.46ms p(90)=1.12ms p(95)=1.59ms
     http_req_duration..............: avg=21.26s   min=5.87s  med=21.62s   max=38.04s p(90)=31.86s p(95)=33.17s
     http_req_failed................: 100.00% ✓ 56       ✗ 0
     http_req_receiving.............: avg=2.76ms   min=1.72ms med=2.61ms   max=6.44ms p(90)=3.67ms p(95)=3.83ms
     http_req_sending...............: avg=27.01µs  min=0s     med=0s       max=1ms    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=21.26s   min=5.87s  med=21.61s   max=38.04s p(90)=31.85s p(95)=33.17s
     http_reqs......................: 56      1.119926/s
     iteration_duration.............: avg=21.42s   min=6.88s  med=21.79s   max=38.54s p(90)=31.77s p(95)=32.82s
     iterations.....................: 53      1.05993/s
     vus............................: 5       min=5      max=70
     vus_max........................: 70      min=16     max=70


running (50.0s), 00/70 VUs, 53 complete and 28 interrupted iterations
concurrency_test ✓ [======================================] 20/50 VUs  10s  10.00 iters/s
load_test        ✓ [======================================] 05/10 VUs  20s   5.00 iters/s
stress_test      ✓ [======================================] 03/10 VUs  15s   5.00 iters/s
```
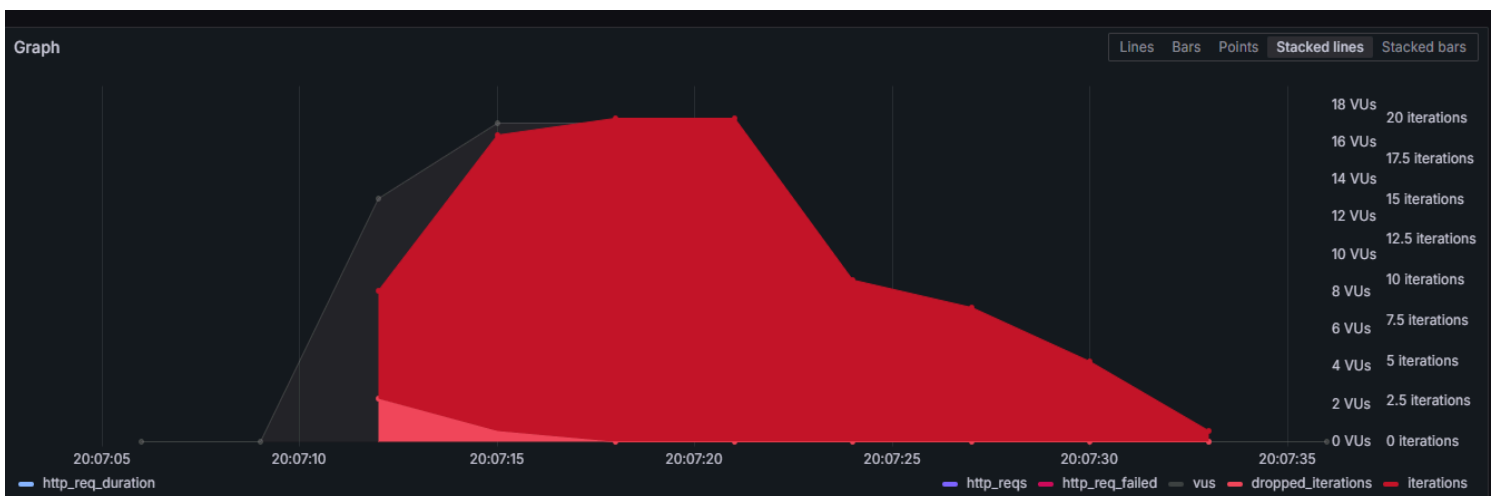
http://127.0.0.1:8000/profile-1

```
         ↳  0% — ✓ 0 / ✗ 25

      █ load test

        checks.....................: 0.00%    ✓ 0         ✗ 25
        data_received..............: 5.0 MB   100 kB/s
        data_sent..................: 7.3 kB   146 B/s
        dropped_iterations.........: 195      3.899968/s
        group_duration.............: avg=21.84s min=2.49s med=24.57s  max=42.94s  p(90)=33.92s  p(95)=34.8s
        http_req_blocked...........: avg=1.16ms min=0s    med=772.7µs max=3.84ms  p(90)=2.6ms   p(95)=2.84ms
        http_req_connecting........: avg=1.02ms min=0s    med=560.2µs max=3.84ms  p(90)=2.54ms  p(95)=2.84ms
        http_req_duration..........: avg=21.55s min=1.98s med=24.1s   max=42.44s  p(90)=33.61s  p(95)=34.73s
        http_req_failed............: 100.00% ✓ 48        ✗ 0
        http_req_receiving.........: avg=9.43ms min=1.09ms med=2.61ms  max=313.02ms p(90)=4.32ms  p(95)=6.56ms
        http_req_sending...........: avg=74.3µs min=0s    med=0s      max=998.7µs p(90)=152.91µs p(95)=535.16µs
        http_req_tls_handshaking...: avg=0s     min=0s    med=0s      max=0s      p(90)=0s      p(95)=0s
        http_req_waiting...........: avg=21.54s min=1.96s med=24.09s  max=42.44s  p(90)=33.61s  p(95)=34.72s
        http_reqs..................: 48      0.959992/s
        iteration_duration.........: avg=21.84s min=2.49s med=24.57s  max=42.94s  p(90)=33.92s  p(95)=34.8s
        iterations.................: 46      0.919992/s
        vus........................: 2       min=2       max=69
        vus_max....................: 70      min=16      max=70


     running (50.0s), 00/70 VUs, 46 complete and 36 interrupted iterations
     concurrency_test ✓ [======================================] 32/50 VUs  10s  10.00 iters/s
     load_test        ✓ [======================================] 02/10 VUs  20s  5.00 iters/s
     stress_test      ✓ [======================================] 02/10 VUs  15s  5.00 iters/s
```
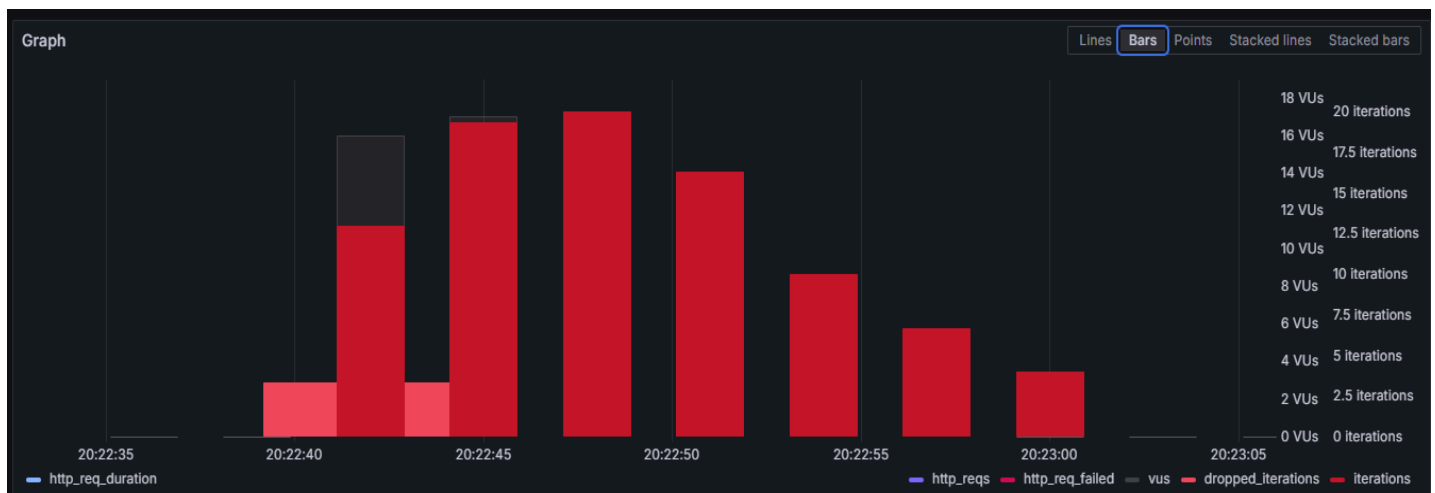
```
checks..........................: 100.00% ✓ 1         ✗ 0
data_received...................: 249 kB  5.0 kB/s
data_sent.......................: 52 kB   1.0 kB/s
dropped_iterations..............: 207     4.139753/s
group_duration..................: avg=38.02s   min=33.06s med=37.7s    max=43.64s  p(90)=42.42s p(95)=43.03s
http_req_blocked................: avg=802.4µs  min=0s     med=565µs    max=6.49ms  p(90)=1.23ms p(95)=1.64ms
http_req_connecting.............: avg=737.66µs min=0s     med=554.69µs max=6.49ms  p(90)=1.13ms p(95)=1.27ms
http_req_duration...............: avg=19.67s   min=4.16s  med=19.39s   max=36.38s  p(90)=31.62s p(95)=33.02s
   { expected_response:true }...: avg=19.67s   min=4.16s  med=19.39s   max=36.38s  p(90)=31.62s p(95)=33.02s
http_req_failed.................: 0.00%   ✓ 0         ✗ 57
http_req_receiving..............: avg=3.11ms   min=1.24ms med=2.63ms   max=12.61ms p(90)=4.58ms p(95)=5.22ms
http_req_sending................: avg=49.19µs  min=0s     med=0s       max=1.07ms  p(90)=0s     p(95)=205.65µs
http_req_tls_handshaking........: avg=0s       min=0s     med=0s       max=0s      p(90)=0s     p(95)=0s
http_req_waiting.................: avg=19.67s   min=4.14s  med=19.38s   max=36.37s  p(90)=31.62s p(95)=33.01s
http_reqs.......................: 57      1.139932/s
iteration_duration..............: avg=38.02s   min=33.06s med=37.7s    max=43.64s  p(90)=42.42s p(95)=43.03s
iterations......................: 4       0.079995/s
vus.............................: 8       min=8      max=70
vus_max.........................: 70      min=16     max=70


running (50.0s), 00/70 VUs, 4 complete and 66 interrupted iterations
concurrency_test ✓ [======================================] 49/50 VUs  10s  10.00 iters/s
load_test        ✓ [======================================] 08/10 VUs  20s   5.00 iters/s
stress_test      ✓ [======================================] 09/10 VUs  15s   5.00 iters/s
```

http://127.0.0.1:8000/quotations-1
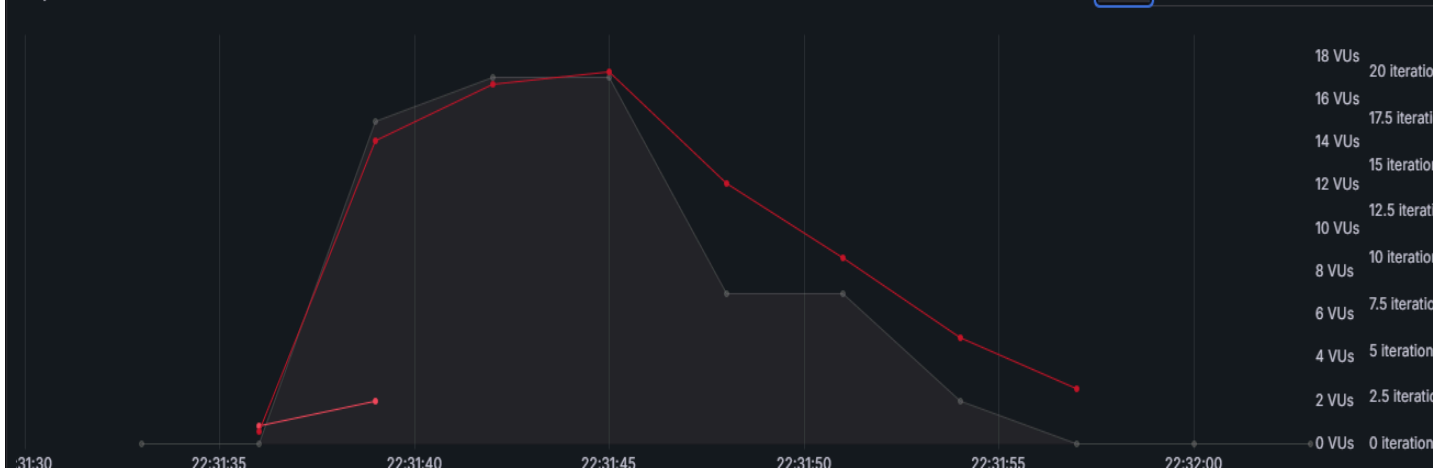
```
     ↳  0% — ✓ 0 / ✗ 34

     checks.....................: 0.00%   ✓ 0          ✗ 34
     data_received..............: 5.9 MB  119 kB/s
     data_sent..................: 7.5 kB  151 B/s
     dropped_iterations.........: 194     3.878915/s
     group_duration.............: avg=19.67s   min=2.6s   med=20.08s  max=35.42s  p(90)=30.67s   p(95)=31.83s
     http_req_blocked...........: avg=1.05ms   min=0s     med=536.2µs max=8.37ms  p(90)=2.09ms   p(95)=2.84ms
     http_req_connecting........: avg=728.79µs min=0s     med=506.4µs max=3.6ms   p(90)=1.51ms   p(95)=2.53ms
     http_req_duration..........: avg=19.01s   min=1.58s  med=19.52s  max=34.42s  p(90)=30.02s   p(95)=31.41s
     http_req_failed............: 100.00% ✓ 57         ✗ 0
     http_req_receiving.........: avg=14.11ms  min=1.7ms  med=2.62ms  max=557.91ms p(90)=4.91ms  p(95)=5.46ms
     http_req_sending...........: avg=144.66µs min=0s     med=0s      max=1.51ms  p(90)=533.91µs p(95)=976.61µs
     http_req_tls_handshaking...: avg=0s       min=0s     med=0s      max=0s      p(90)=0s       p(95)=0s
     http_req_waiting...........: avg=19s      min=1.58s  med=19.52s  max=33.86s  p(90)=30.02s   p(95)=31.41s
     http_reqs..................: 57      1.139681/s
     iteration_duration.........: avg=19.67s   min=2.6s   med=20.08s  max=35.42s  p(90)=30.67s   p(95)=31.83s
     iterations.................: 56      1.119687/s
     vus........................: 5       min=5        max=68
     vus_max....................: 68      min=16       max=68


running (50.0s), 00/68 VUs, 56 complete and 26 interrupted iterations
concurrency_test ✓ [======================================] 19/48 VUs  10s  10.00 iters/s
load_test        ✓ [======================================] 05/10 VUs  20s  5.00 iters/s
stress_test      ✓ [======================================] 02/10 VUs  15s  5.00 iters/s
```
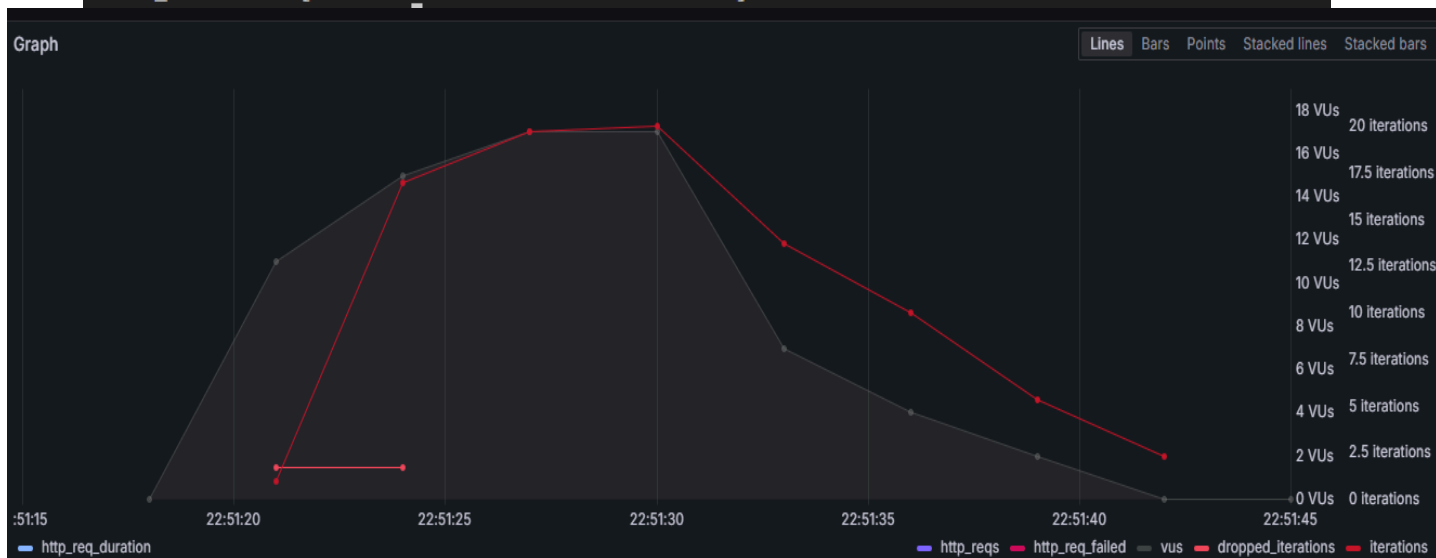
Test Analysis Result

Request	Expected Load	Max Response Time	Min Throughput	Max Jitter	Min Bandwidth
http://127.0.0.1:8000/products/e596eee4-e9c2-428d-aae6-ae77952d3ec7/edit-2	50	47.74s	33.06s	47.51 ms	95 B/s
http://127.0.0.1:8000/products/e596eee4-e9c2-428d-aae6-ae77952d3ec7/edit-3	50	42.52s	20.08s	313.02 ms	147 B/s
http://127.0.0.1:8000/orders/pending-2	70	36.38s	42.44s	2.61ms	135 B/s
http://127.0.0.1:8000/orders/pending-3	70	19.67s	30.67s	14.11 ms	151 B/s
http://127.0.0.1:8000/purchases/report-2	70	42.44s	20.08s	4.91ms	95 B/s
http://127.0.0.1:8000/purchases/report-3	70	38.04s	33.92s	2.63ms	147 B/s

http://127.0.0.1:8000/due/orders-2	50	38.54s	21.84s	10.92 ms	878.6 µs
http://127.0.0.1:8000/due/orders-3	50	43.03s	25.34s	6.83ms	1.51 ms
http://127.0.0.1:8000/units/centimeters-2	70	36.38s	20.08s	4.58ms	95 B/s
http://127.0.0.1:8000/units/centimeters-3	70	42.94s	25.34s	3.67ms	151 B/s
http://127.0.0.1:8000/purchases/approved-2	50	33.01s	31.85s	1.07ms	878.6 µs
http://127.0.0.1:8000/purchases/approved-3	50	30.02s	24.57s	557.91 ms	147 B/s
http://127.0.0.1:8000/customers-2	50	36.37s	19.39s	3.83ms	95 B/s
http://127.0.0.1:8000/customers-3	50	31.62s	25.23s	5.46ms	95 B/s
http://127.0.0.1:8000/orders-2	70	38.04s	21.26s	6.44ms	135 B/s

http://127.0.0.1:8000/orders-3	70	42.42s	21.55s	2.76ms	151 B/s
http://127.0.0.1:8000/products-2	50	31.62s	24.09s	2.11ms	878.6 µs
http://127.0.0.1:8000/products-3	50	36.37s	19.38s	878.6µs	878.6 µs
http://127.0.0.1:8000/quotations-2	70	36.38s	20.08s	4.32ms	135 B/s
http://127.0.0.1:8000/quotations-3	70	43.03s	20.08s	5.22ms	135 B/s
http://127.0.0.1:8000/suppliers-2	70	42.52s	21.26s	3.67ms	1.51 ms
http://127.0.0.1:8000/suppliers-3	50	38.54s	19.67s	6.44ms	95 B/s
http://127.0.0.1:8000/categories-2	70	43.03s	19.67s	12.65 ms	151 B/s
http://127.0.0.1:8000/categories-3	50	42.42s	33.61s	20.13 ms	95 B/s

http://127.0.0.1:8000/profile-2	70	47.73s	24.57s	3.36ms	151 B/s
http://127.0.0.1:8000/profile-3	50	41.36s	19.67s	7.85ms	147 B/s
http://127.0.0.1:8000/orders/complete-2	50	42.44s	38.02s	12.61 ms	878.6 µs
http://127.0.0.1:8000/orders/complete-3	70	43.64s	37.7s	12.61 ms	1.07 ms