

GRUPO Y

INFORME PRACTICA 7

Smoke test

```
http_req_duration
✓ 'avg<500' avg=531.23µs

http_req_failed
✓ 'rate==0' rate=0.00%

TOTAL RESULTS

checks_total.....: 476806 7938.614437/s
checks_succeeded.....: 100.00% 476806 out of 476806
checks_failed.....: 0.00% 0 out of 476806

✓ response code was 200

HTTP
http_req_duration.....: avg=531.23µs min=0s med=526.8µs max=62.7ms p(90)=958.2µs p(95)=1.08ms
{ expected_response:true }.....: avg=531.23µs min=0s med=526.8µs max=62.7ms p(90)=958.2µs p(95)=1.08ms
http_req_failed.....: 0.00% 0 out of 476806
http_reqs.....: 476806 7938.614437/s

EXECUTION
iteration_duration.....: avg=620.32µs min=0s med=531.59µs max=63.7ms p(90)=1.04ms p(95)=1.22ms
iterations.....: 476806 7938.614437/s
vus.....: 5 min=5 max=5
vus_max.....: 5 min=5 max=5

NETWORK
data_received.....: 138 MB 2.3 MB/s
data_sent.....: 37 MB 619 kB/s

running (1m00.1s), 0/5 VUs, 476806 complete and 0 interrupted iterations
default ✓ [=====] 5 VUs 1m0s
```

Breakpoint con executor

```
THRESHOLDS
http_req_failed
X 'rate<=0.01' rate=1.07%

TOTAL RESULTS

HTTP
http_req_duration.....: avg=5.55ms min=0s med=847.2µs max=3.79s p(90)=11.53ms p(95)=19.86ms
{ expected_response:true }.....: avg=5.61ms min=0s med=890.65µs max=3.79s p(90)=11.63ms p(95)=19.92ms
http_req_failed.....: 1.07% 4180 out of 389952
http_reqs.....: 389952 5537.712711/s

EXECUTION
dropped_iterations.....: 16831 239.017219/s
iteration_duration.....: avg=22.58ms min=0s med=1ms max=5.6s p(90)=13.15ms p(95)=23.1ms
iterations.....: 388845 5521.992191/s
vus.....: 1532 min=0 max=1532
vus_max.....: 1532 min=1000 max=1532

NETWORK
data_received.....: 112 MB 1.6 MB/s
data_sent.....: 30 MB 427 kB/s

running (01m10.6s), 0000000/00001533 VUs, 388806 complete and 1532 interrupted iterations
break_test X [===>-----] 00001530/00001532 VUs 01m09.9s/10m0s 011650.12 iters/s
ERROR[0070] thresholds on metrics 'http_req_failed' were crossed; at least one has abortOnFail enabled, stopping test prematurely
```

Breakpoint sin executor

```
THRESHOLDS
http_req_failed
X 'rate<0.01' rate=1.63%

TOTAL RESULTS

checks_total.....: 398586 4962.430498/s
checks_succeeded.....: 99.03% 394736 out of 398586
checks_failed.....: 0.96% 3850 out of 398586

X response code was 200
  99% - ✓ 394736 / X 3850

HTTP
http_req_duration.....: avg=760.99ms min=0s med=519.98ms max=20.75s p(90)=1.48s p(95)=2.63s
{ expected_response:true }.....: avg=773.61ms min=0s med=525.9ms max=20.75s p(90)=1.49s p(95)=2.7s
http_req_failed.....: 1.63% 6579 out of 403191
http_reqs.....: 403191 5019.76315/s

EXECUTION
iteration_duration.....: avg=973.62ms min=3.52ms med=652.8ms max=22.81s p(90)=1.57s p(95)=3.18s
iterations.....: 397584 4949.955511/s
vus.....: 11033 min=0 max=11033
vus_max.....: 100000 min=12903 max=100000

NETWORK
data_received.....: 116 MB 1.4 MB/s
data_sent.....: 31 MB 389 kB/s

running (01m20.8s), 000000/100000 VUs, 395899 complete and 11048 interrupted iterations
default X [===>-----] 004794/100000 VUs 01m18.0s/10m00.0s
ERROR[0124] thresholds on metrics 'http_req_failed' were crossed; at least one has abortOnFail enabled, stopping test prematurely
```

Sin executor se observa un aumento de los vus_max de 1532 a 100000. Sin embargo ambos test superar el 0.01 de rate.

Stress Test

```
THRESHOLDS

http_req_duration
✓ 'avg<=1000' avg=204.94ms

http_req_failed
✓ 'rate<0.01' rate=0.91%

TOTAL RESULTS

checks_total.....: 4177571 8703.181533/s
checks_succeeded.....: 99.08% 4139410 out of 4177571
checks_failed.....: 0.91% 38161 out of 4177571

X status is 200
  99% - ✓ 4139410 / X 38161

HTTP
http_req_duration.....: avg=204.94ms min=0s med=167.84ms max=27.61s p(90)=397.22ms p(95)=475.74ms
{ expected_response:true }.....: avg=206.74ms min=0s med=169.65ms max=27.61s p(90)=397.97ms p(95)=476.64ms
http_req_duration.....: avg=204.94ms min=0s med=167.84ms max=27.61s p(90)=397.22ms p(95)=475.74ms
http_req_duration.....: avg=204.94ms min=0s med=167.84ms max=27.61s p(90)=397.22ms p(95)=475.74ms
{ expected_response:true }.....: avg=206.74ms min=0s med=169.65ms max=27.61s p(90)=397.97ms p(95)=476.64ms
http_req_failed.....: 0.91% 38161 out of 4177571
http_reqs.....: 4177571 8703.181533/s

EXECUTION
iteration_duration.....: avg=290.72ms min=0s med=194.66ms max=27.99s p(90)=441.79ms p(95)=547.63ms
iterations.....: 4177571 8703.181533/s
vus.....: 11 min=11 max=3835
vus_max.....: 3835 min=3835 max=3835

NETWORK
data_received.....: 1.2 GB 2.5 MB/s
data_sent.....: 323 MB 673 kB/s

running (8m00.0s), 0000/3835 VUs, 4177571 complete and 0 interrupted iterations
default ✓ [=====] 0000/3835 VUs 8m0s
```

Supera correctamente el test, el sistema soporta el 80% de la carga del punto de rotura.

Average Load Test

```
THRESHOLDS

http_req_failed
✓ 'rate<0.01' rate=0.00%

TOTAL RESULTS

checks_total.....: 789642 1642.5528/s
checks_succeeded.....: 100.00% 789642 out of 789642
checks_failed.....: 0.00% 0 out of 789642

✓ status is 200

HTTP
http_req_duration.....: avg=2ms min=0s med=1.07ms max=518.63ms p(90)=3.35ms p(95)=5.55ms
{ expected_response:true }.....: avg=2ms min=0s med=1.07ms max=518.63ms p(90)=3.35ms p(95)=5.55ms
http_req_failed.....: 0.00% 0 out of 789642
http_reqs.....: 789642 1642.5528/s

EXECUTION
iteration_duration.....: avg=1s min=1s med=1s max=1.57s p(90)=1s p(95)=1s
iterations.....: 789642 1642.5528/s
vus.....: 16 min=11 max=2397
vus_max.....: 2397 min=2397 max=2397

NETWORK
data_received.....: 228 MB 475 kB/s
data_sent.....: 62 MB 128 kB/s

running (8m00.7s), 0000/2397 VUs, 789642 complete and 0 interrupted iterations
default ✓ [=====] 0000/2397 VUs 8m0s
```

Se ha completado el test correctamente, el sistema sí que es capaz de gestionar el 50% del punto de rotura con la misma rampa anterior, manteniendo las peticiones fallidas por debajo del 0.5%

Spike test

```
THRESHOLDS
http_req_failed
✓ 'rate<0.005' rate=0.00%

TOTAL RESULTS
checks_total.....: 173128 957.828468/s
checks_succeeded.....: 100.00% 173128 out of 173128
checks_failed.....: 0.00% 0 out of 173128

✓ status is 200

HTTP
http_req_duration.....: avg=1.42ms min=0s med=1.05ms max=71.52ms p(90)=2.59ms p(95)=3.57ms
{ expected_response:true }.....: avg=1.42ms min=0s med=1.05ms max=71.52ms p(90)=2.59ms p(95)=3.57ms
http_req_failed.....: 0.00% 0 out of 173128
http_reqs.....: 173128 957.828468/s

EXECUTION
iteration_duration.....: avg=1s min=1s med=1s max=1.07s p(90)=1s p(95)=1s
iterations.....: 173128 957.828468/s
vus.....: 21 min=14 max=1914
vus_max.....: 1917 min=1917 max=1917

NETWORK
data_received.....: 50 MB 277 kB/s
data_sent.....: 14 MB 75 kB/s

running (3m00.8s), 0000/1917 VUs, 173128 complete and 0 interrupted iterations
default ✓ [=====] 0000/1917 VUs 3m0s
```

Se ha completado el test correctamente, el sistema sí que es capaz de gestionar el 40% de la carga máxima en tan solo 2 minutos, manteniendo las peticiones fallidas por debajo del 0.5%