

Allan Cortes 20.347.156-4

## Benchmark mediante Apache Bench

1) ab-n 100-c1 <http://localhost:7070/api/personas/>:

```
Server Hostname:      localhost
Server Port:         7070

Document Path:       /api/personas/
Document Length:     244931 bytes

Concurrency Level:    1
Time taken for tests: 10.466 seconds
Complete requests:    100
Failed requests:      0
Total transferred:    24501900 bytes
HTML transferred:     24493100 bytes
Requests per second:  9.55 [#/sec] (mean)
Time per request:     104.660 [ms] (mean)
Time per request:     104.660 [ms] (mean, across all concurrent requests)
Transfer rate:        2286.22 [Kbytes/sec] received

Connection Times (ms)
      min  mean[+/-sd] median   max
Connect:    0     0   0.2      0     2
Processing: 88    103  10.2    102    141
Waiting:    6     8   2.0      8    18
Total:      88    103  10.2    102    141

Percentage of the requests served within a certain time (ms)
 50%    102
 66%    106
 75%    109
 80%    110
 90%    116
 95%    125
 98%    131
 99%    141
100%    141 (longest request)
```

2) `ab -n 1000 -c1 http://localhost:7070/api/personas/:`

```
Settings  x  ~  x  +  v
ab -n 1000 -c1 http://localhost:7070/api/personas/
This is ApacheBench, Version 2.3 <$Revision: 1879490 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking localhost (be patient)
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests
```

Luego de completar las 1000 requests se obtuvieron estos resultados:

```
Settings  x  ~  x  +  v
Server Port: 7070

Document Path: /api/personas/
Document Length: 245098 bytes

Concurrency Level: 1
Time taken for tests: 109.762 seconds
Complete requests: 1000
Failed requests: 0
Total transferred: 245186000 bytes
HTML transferred: 245098000 bytes
Requests per second: 9.11 [#/sec] (mean)
Time per request: 109.762 [ms] (mean)
Time per request: 109.762 [ms] (mean, across all concurrent requests)
Transfer rate: 2181.44 [Kbytes/sec] received

Connection Times (ms)
      min   mean[+/-sd] median   max
Connect:    0     1   4.8      0    60
Processing:  83    107  18.7    103   231
Waiting:    5     7   2.9      7    54
Total:      83    108  20.0    103   231

Percentage of the requests served within a certain time (ms)
 50%    103
 66%    110
 75%    114
 80%    117
 90%    131
 95%    150
 98%    170
 99%    187
100%    231 (longest request)
```

3) `ab -n 10000 -c 10 http://localhost:7070/api/personas/`

```
Settings x ~ x + v
ab -n 10000 -c 10 http://localhost:7070/api/personas/
This is ApacheBench, Version 2.3 <$Revision: 1879490 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking localhost (be patient)
Completed 1000 requests
^C

Server Software:
Server Hostname:      localhost
Server Port:          7070

Document Path:        /api/personas/
Document Length:      244873 bytes
```

El Sistema se quedó pegado luego de completar las 1000 requests, por lo que se tuvo que forzar la detención del comando y se obtuvo estos resultados.

```
Settings x ~ x + v
Server Port:          7070

Document Path:        /api/personas/
Document Length:      244873 bytes

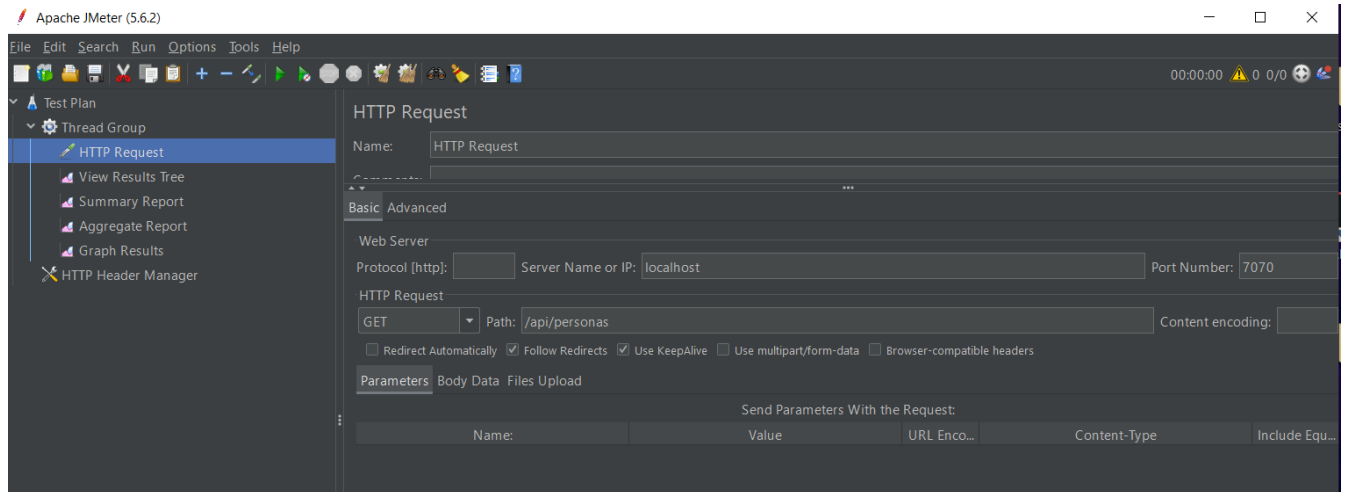
Concurrency Level:    10
Time taken for tests:  222.423 seconds
Complete requests:    1185
Failed requests:      0
Total transferred:    290508249 bytes
HTML transferred:    290403881 bytes
Requests per second:  5.33 [#/sec] (mean)
Time per request:     1876.989 [ms] (mean)
Time per request:     187.699 [ms] (mean, across all concurrent requests)
Transfer rate:        1275.49 [Kbytes/sec] received

Connection Times (ms)
      min  mean[+/-sd] median   max
Connect:    0    1   3.8      0    45
Processing: 97 1624 2464.4   1017  32986
Waiting:    0  811 1244.3    571  25184
Total:      97 1625 2464.5   1018  32986

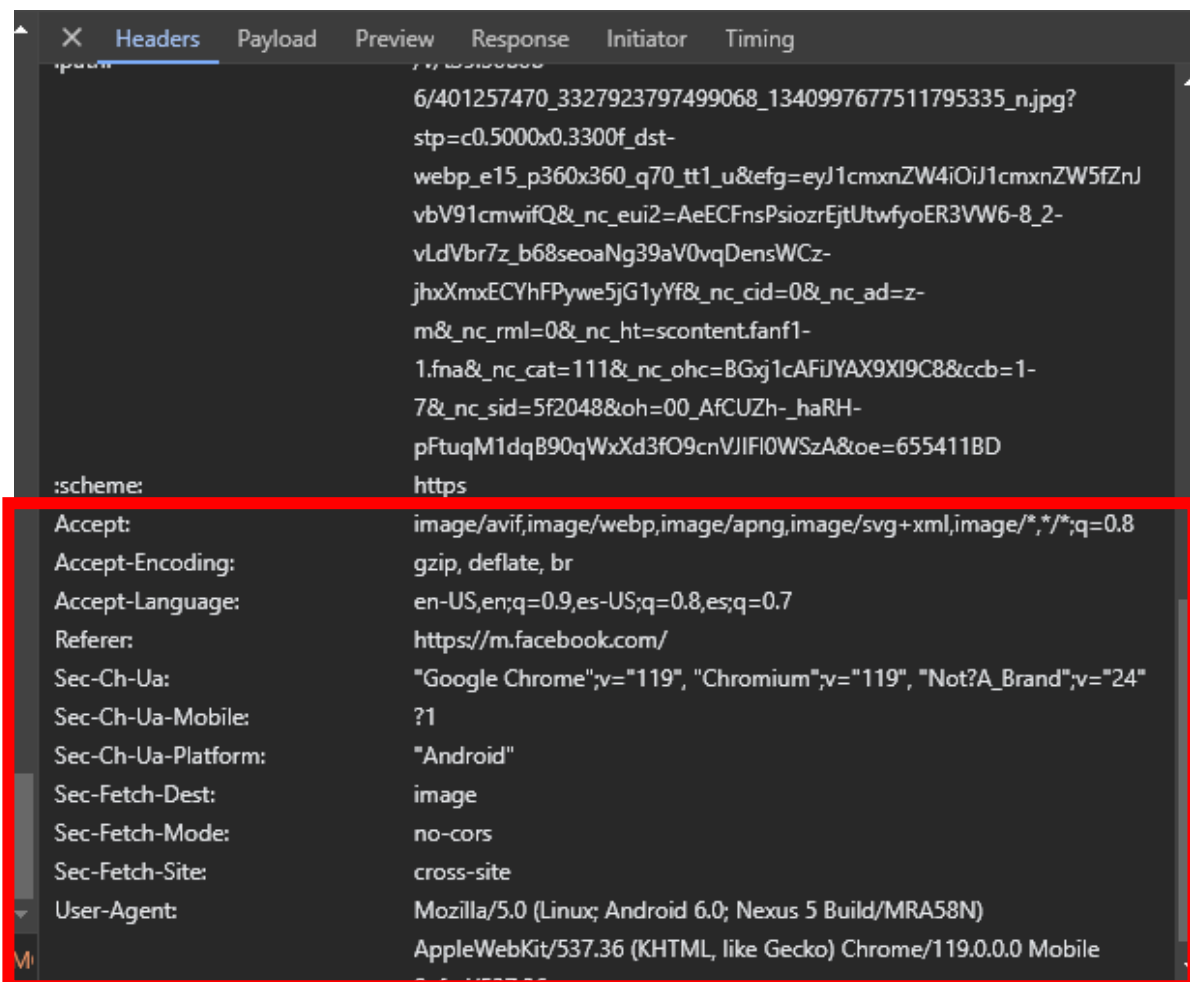
Percentage of the requests served within a certain time (ms)
 50%    1017
 66%    1267
 75%    1503
 80%    1698
 90%    2642
 95%    4025
 98%    7063
 99%   13441
100%   32986 (longest request)
```

# Benchmark mediante Jmeter

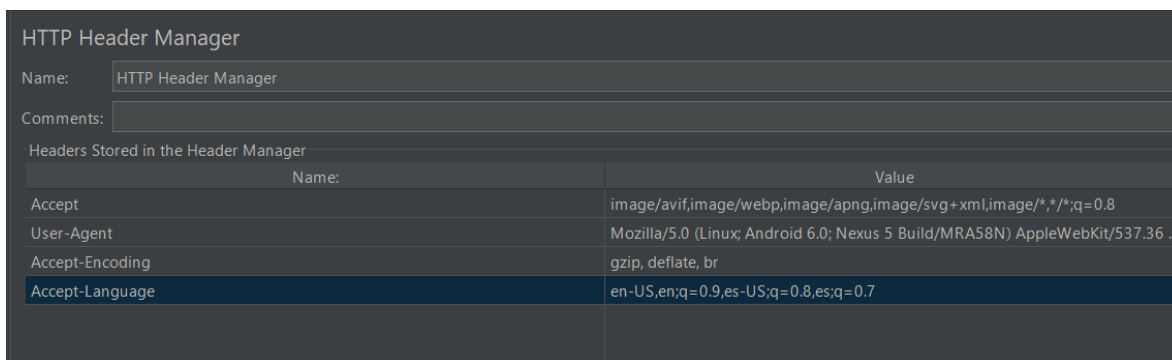
Se procede a configurar en primera instancia Jmeter:



Luego se ingresa los datos del header obtenidos por el navegador, en este caso Chrome.

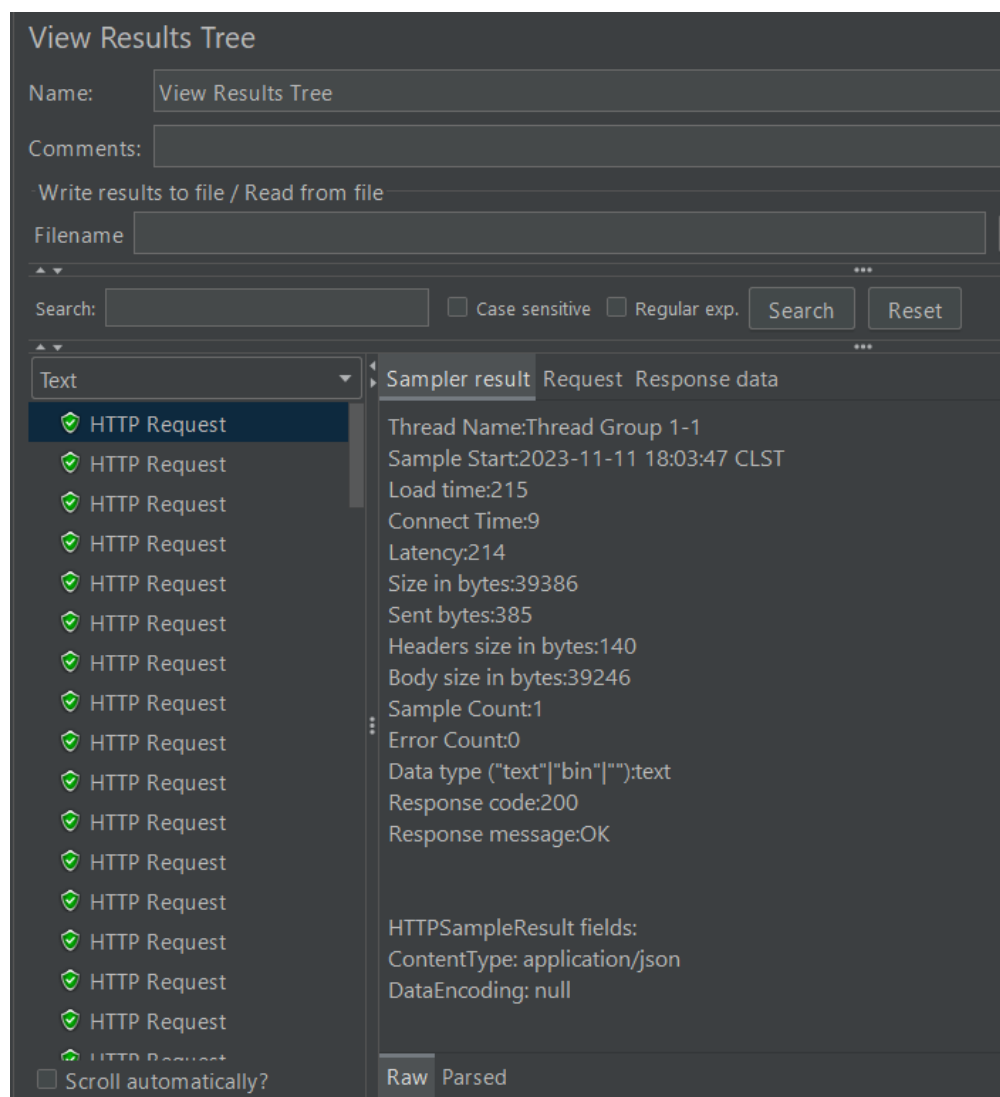


Terminando con la configuración del HTTP Header Manager quedaría de esta forma :



## Thread Test

View Results Tree(Testeando con 500 usuarios)



## Summary Report(500 usuarios)

Summary Report

Name:

Summary Report

Comments:

Write results to file / Read from file

Filename

Browse...

Log/Display Only: ☐ Errors ☐ Successes

Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB...	Sent KB/sec	Avg. Bytes
HTTP Request	601	419	0	1333	341.55	0.00%	1.7/sec	64.70	0.63	39386.0
TOTAL	601	419	0	1333	341.55	0.00%	1.7/sec	64.70	0.63	39386.0

## Aggregate Report (500 usuarios):

Aggregate Report

Name:

Aggregate Report

Comments:

Write results to file / Read from file

Filename

Browse...

Log/Display Only:

☐ Errors

☐ Successes

Configure

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughp...	Received ...	Sent KB/sec
HTTP Req...	601	419	453	863	1078	1220	19	1333	0.00%	1.7/sec	64.70	0.63
TOTAL	601	419	453	863	1078	1220	19	1333	0.00%	1.7/sec	64.70	0.63

## Graph Results (500 usuarios), se cambió de color para mejor visualización.



Ahora vamos a ver las mismas métricas con 1000 usuarios.

View Results Tree ( 1000 usuarios):

View Results Tree

Name:

View Results Tree

Comments:

Write results to file / Read from file

Filename

Browse...

Log/Display Only: ☐ Errors ☐ Successes

Configure

Search:

☐ Case sensitive ☐ Regular exp.

Search

Reset

Text

Sampler result

Request

Response data

Thread Name:Thread Group 1-1

Sample Start:2023-11-11 18:03:47 CLST

Load time:215

Connect Time:9

Latency:214

Size in bytes:39386

Sent bytes:385

Headers size in bytes:140

Body size in bytes:39246

Sample Count:1

Error Count:0

Data type ("text"|"bin"|""):text

Response code:200

Response message:OK

HTTPSampleResult fields:

ContentType: application/json

DataEncoding: null

☐ Scroll automatically?

Raw

Parsed

### Summary Report (1000 Usuarios):

Summary Report

Name:

Summary Report

Comments:

Write results to file / Read from file

Filename

Browse...

Log/Display Only:

☐ Errors

☐ Successes

Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HTTP Request	1601	617	0	2624	507.75	0.00%	2.8/sec	106.47	1.04	39386.6
TOTAL	1601	617	0	2624	507.75	0.00%	2.8/sec	106.47	1.04	39386.6

### Aggregate Report (1000 Usuarios):

### Aggregate Report

Name:

Comments:

Write results to file / Read from file

Filename   Log/Display Only: ☐ Errors ☐ Successes

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughp...	Received ...	Sent KB/sec
HTTP Req...	1601	617	533	1291	1518	2126	19	2624	0.00%	2.8/sec	106.47	1.04
TOTAL	1601	617	533	1291	1518	2126	19	2624	0.00%	2.8/sec	106.47	1.04

Graph Results(1000 usuarios), se cambió de color para mejor visualización.

