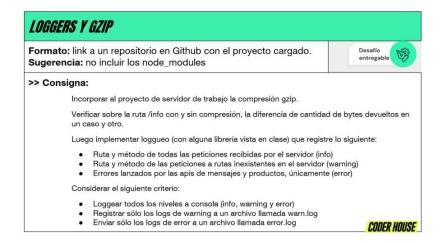
DESAFÍO 16: LOGGERS, GZIP Y ANÁLISIS DE PERFORMANCE

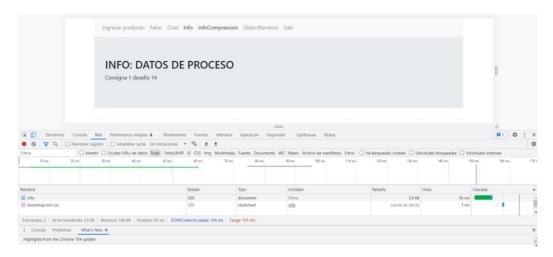
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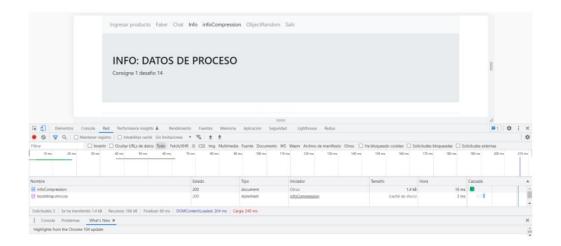
1- CONSIGNA: LOGGER Y GZIP



• Accediendo a info (sin compresión Gzip):



Accediendo a info (con compresión Gzip):



Errores guardados en "error.log":

```
desafio-16 > ≡ error.log

1 [2023-02-13712:26:52.748] [ERROR] errorArchive - Error ReferenceError: selectAllProucts is not defined

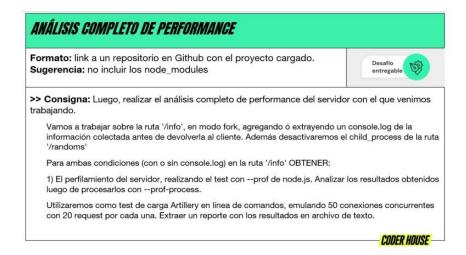
2 [2023-02-13712:47:26.197] [ERROR] errorArchive - Error ReferenceError: insertPoduct is not defined
```

Warn guardados en "warn.log":

Info por consola

```
[2023-02-14T11:18:31.382] [INFO] default -
Ruta consultada: /
Metodo GET
```

2- CONSIGNA: ANÁLISIS COMPLETO DE PERFORMANCE



ANÁLISIS DE PERFORMANCE: --PROF

infoController.js → con console.log(data), sin child_process en /randoms

- Terminal 1: node –prof server.js
- Desde postman: GET http://localhost:8080/info
- Terminal 2: node –prof-process infoConsoleLog.log > infoConsoleLog.txt

```
[Summary]:

ticks total nonlib name

9 0.3% 100.0% JavaScript

0 0.0% 0.0% C++

5 0.2% 55.6% GC

2566 99.7% Shared libraries
```

infoController.js → sin console.log(data), sin child_process en /randoms

- Terminal 1: node –prof server.js
- Desde postman: GET http://localhost:8080/info
- Terminal 2: node –prof-process infoSinConsoleLog.log > infoSinConsoleLog.txt

```
[Summary]:
ticks total nonlib name
6 0.6% 100.0% JavaScript
0 0.0% 0.0% C++
4 0.4% 66.7% GC
942 99.4% Shared libraries
```

ANÁLISIS DE PERFORMANCE: ARTILLERY

infoController.js → con console.log(data), sin child_process en /randoms

- Terminal 1: node server.js
- Terminal 2: artillery quick —count 50 –n 20 "http://localhost:8080/info" > result infoConConsoleLog.txt

```
Started phase 0, duration: 1s @ 10:43:33(-0300) 2023-02-14
                                                             Report @ 10:43:53(-0300) 2023-02-14
Report @ 10:43:43(-0300) 2023-02-14
                                                             Elapsed time: 20 seconds
                                                               Scenarios launched: 0
Elapsed time: 10 seconds
                                                               Scenarios completed: 21
 Scenarios completed: 0
                                                               Requests completed: 9
 Requests completed: 406
 Mean response/sec: 44.09
                                                               Response time (msec):
 Response time (msec):
                                                                median: 334
   max: 1716
   median: 757.5
   p95: 1104.6
   p99: 1542.6
                                                               Codes:
 Codes:
                                                                 200: 9
   200: 406
                                                             All virtual users finished
Report @ 10:43:53(-0300) 2023-02-14
                                                             Summary report @ 10:43:53(-0300) 2023-02-14
                                                               Scenarios launched: 50
Elapsed time: 20 seconds
 Scenarios launched: 0
                                                               Scenarios completed: 50
  Scenarios completed: 29
                                                               Requests completed: 1000
                                                               Mean response/sec: 49.55
 Requests completed: 585
                                                               Response time (msec):
 Mean response/sec: 56.92
 Response time (msec):
                                                                max: 1716
   min: 388
   median: 638
   p95: 792.5
                                                               Scenario counts:
   p99: 1200.6
                                                                0: 50 (100%)
 Codes:
                                                               Codes:
                                                                 200: 1000
```

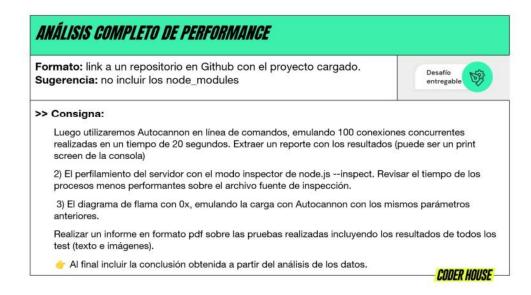
infoController.js → sin console.log(data), sin child_process en /randoms

- Terminal 1: node server.js
- Terminal 2: artillery quick —count 50 —n 20 "http://localhost:8080/info" > result_infoSinConsoleLog.txt

```
desafio-16 > 

☐ result_infoSinConsoleLog.txt
      Started phase 0, duration: 1s @ 10:15:07(-0300) 2023-02-14
      Report @ 10:15:15(-0300) 2023-02-14
      Elapsed time: 8 seconds
      Scenarios launched: 50
      Scenarios completed: 50
      Requests completed: 1000
        Mean response/sec: 124.07
        Response time (msec):
        min: 11
        max: 679
        median: 246
        p95: 419.5
 12
        p99: 532.5
        Codes:
       200: 1000
      All virtual users finished
      Summary report @ 10:15:15(-0300) 2023-02-14
      Scenarios launched: 50
      Scenarios completed: 50
      Requests completed: 1000
      Mean response/sec: 123.76
      Response time (msec):
      min: 11
       max: 679
median: 246
        p95: 419.5
        p99: 532.5
       Scenario counts:
        0: 50 (100%)
        Codes:
          200: 1000
```

3- CONSIGNA: ANÁLISIS COMPLETO DE PERFORMANCE



ANÁLISIS DE PERFORMANCE: AUTOCANNON

infoController.js → con console.log(data), sin child_process en /randoms

Terminal 1: node server.js

• Terminal 2: autocannon –c 100 –d 20 http://localhost:8080/info

				_	\rightarrow		\vdash		
Latency	574 ms	796 ms	1408	ns 1	582 ms	842.11 ms	191.16	ms	1897 m
	1%	2.5%	56		97.5%	Avg		Mir	1
Req/Sec	15	15	1.1	14	152	116.45	29.68	15	
Bytes/Se	58.8	kB 58.8	kB 44	47 kB	596 kB	456 kB	116 kB	58.	.8 kB

infoController.js → sin console.log(data), sin child_process en /randoms

Terminal 1: node server.js

• Terminal 2: autocannon –c 100 –d 20 http://localhost:8080/info



	275	F30	4000	4300	FRC 4C	405		4500
Latency	375 ms	538 ms	1028 ms	1300 ms	586.16 n	ns 185.	67 ms	1508 ms
	1%	2.5%	50%	97.5%	Avg	Stdev	Min	
Req/Sec	85	85	163	253	168.5	47.58	85	
Bytes/Sec	333 k8	333 kB	638 kB	991 k8	660 kB	186 kB	333	сВ

ANÁLISIS DE PERFORMANCE: --INSPECTOR

infoController.js \rightarrow con/sin console.log(data) , sin child_process en /randoms

- Terminal 1: node –inspect server.js
- Acceder: chrome://inspect
- Terminal 2: artillery quick -count 50 -n 20 "http://localhost:8080/info" > $result_infoConConsoleLog.txt$
- Terminal 3: artillery quick -count 50 -n 20 "http://localhost:8080/info" > $result_infoSinConsoleLog.txt$

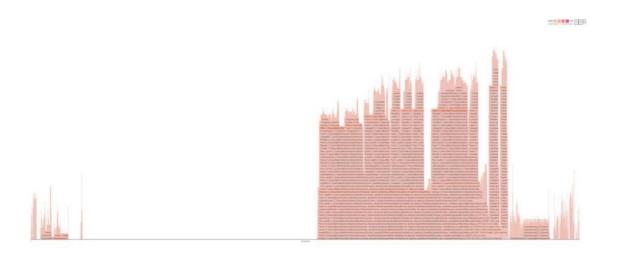
Tiempo individua	al	Tiempo total		Función	
233922.7 ms		233922.7 ms		(idle)	
3905.2 ms	20.81 %	6631.7 ms	35.34 %	▶ consoleCall	
2078.5 ms	11.08 %	2078.5 ms	11.08 %	▶ writeUtf8String	
482.6 ms	2.57 %	482.6 ms	2.57 %	▶stat	
377.4 ms	2.01 %	377.4 ms	2.01 %	(garbage collector)	
359.7 ms	1.92 %	359.7 ms	1.92 %	▶ open	
346.8 ms	1.85 %	346.8 ms	1.85 %	▶ access	
342.0 ms	1.82 %	342.0 ms	1.82 %	▶ getCPUs	
298.3 ms	1.59 %	298.3 ms	1.59 %	(program)	
291.1 ms	1.55 %	876.0 ms	4.67 %	▶ compile	
182.6 ms	0.97 %	182.6 ms	0.97 %	▶ writev	
172.5 ms	0.92 %	172.5 ms	0.92 %	▶ writeBuffer	
171.1 ms	0.91 %	276.3 ms	1.47 %	▶ scanLine	
163.7 ms	0.87 %	2097.6 ms	11.18 %	▶ session	

ANÁLISIS DE PERFORMANCE: 0X

infoController.js → con console.log(data) , sin child_process en /randoms

- Terminal 1: 0x server.js
- Terminal 2: autocannon –c 100 –d 20 http://localhost:8080/info
- Obtengo el gráfico

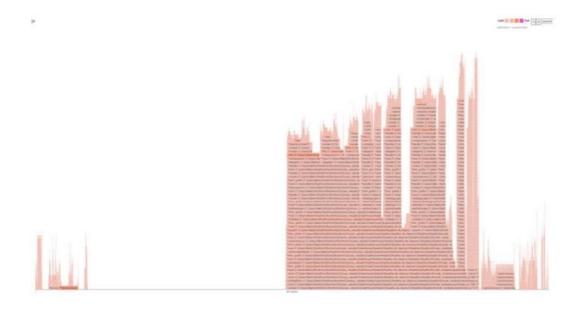
Latency	302 ms	473 ms	800 ms	944 ms	504.69 ms	120.16	ns 1343 m
caccincy	JOZ 1113	473 1113	ooo iiis	244 1113	204.05 III3	120.10	1343 11
Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	98	98	196	295	194.5	41.85	98
Bytes/Sec	384 kB	384 kB	768 kB	1.16 MB	762 kB	164 kB	384 kB



infoController.js → sin console.log(data) , sin child_process en /randoms

- Terminal 1 : 0x server.js
- Terminal 2: autocannon –c 100 –d 20 http://localhost:8080/info
- Obtengo el gráfico

Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	241 ms	342 ms	663 ms	722 ms	361.72 ms	100.68 ms	1107 ms
Stat	1%	2.5%	50%	97.59	& Avg	Stdev	Min
Req/Sec	152	152	294	377	273.3	52.17	152
Bytes/Sec	596 kB	596 kB	1.15	MB 1.48	MB 1.07 M	B 204 kB	596 kB



4- CONCLUSIÓN

Como se puede ver en los ejemplos anteriores, siempre es recomendable no utilizar funciones bloqueantes, ya que las mismas empeoran la performance del servidor. También, es muy importante correr el servidor en modo Cluster, así el mismo corre en varios procesadores.

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