

DESAFIO 13 – GZIP/LOGGER Y ANALISIS DE PERFORMANCE

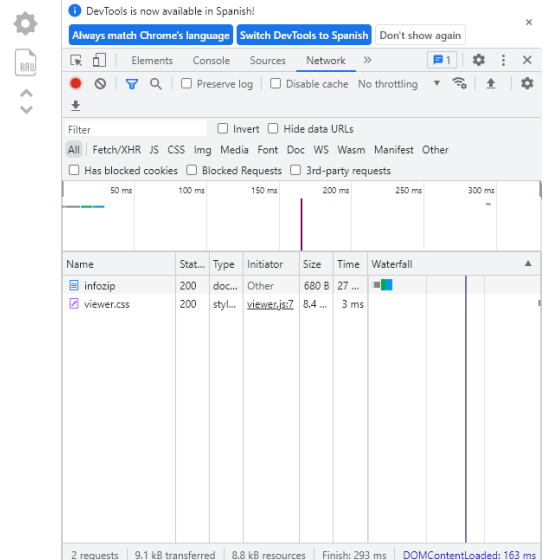
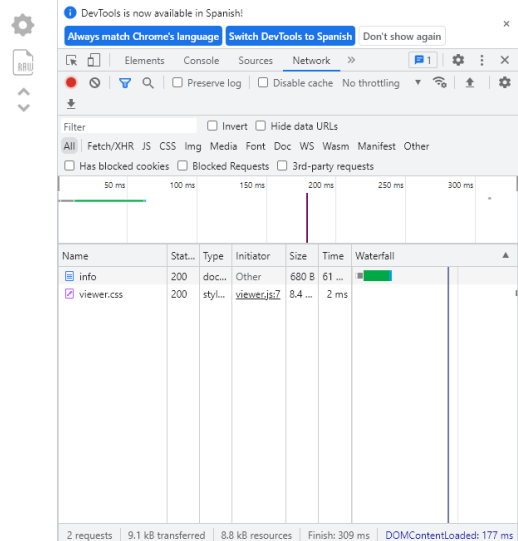
1. COMPRESION GZIP

```
// 20230311163748
// http://localhost:8080/info
```

```
{
  "Argumentos de entrada": [
  ],
  "Nombre de la plataforma": "win32",
  "Versión": "v16.15.1",
  "Memoria": {
    "rss": 93089792,
    "heapTotal": 55136256,
    "heapUsed": 50343056,
    "external": 19283659,
    "arrayBuffers": 18319343
  },
  "Path":
  "C:\\Users\\Miguel\\Documents\\cooderhouse\\Desafios_Backend\\Coderhouse_bac
  kend_40280\\Desafio_13_gzip_performance",
  "Process id": 9072,
  "Carpeta del proyecto": "Desafio_13_gzip_performance",
  "Número de procesadores": 4
}
```

```
// 20230311163812
// http://localhost:8080/infozip
```

```
{
  "Argumentos de entrada": [
  ],
  "Nombre de la plataforma": "win32",
  "Versión": "v16.15.1",
  "Memoria": {
    "rss": 93626368,
    "heapTotal": 55398400,
    "heapUsed": 51137528,
    "external": 19313565,
    "arrayBuffers": 18349209
  },
  "Path":
  "C:\\Users\\Miguel\\Documents\\cooderhouse\\Desafios_Backend\\Coderhouse_bac
  kend_40280\\Desafio_13_gzip_performance",
  "Process id": 9072,
  "Carpeta del proyecto": "Desafio_13_gzip_performance",
  "Número de procesadores": 4
}
```



2. MENSAJES GUARDADOS EN WARN.LOG

warn.log

```
1 [2023-03-13T00:57:42.327] [WARN] archivowarn - ruta inexistente
2 [2023-03-13T00:57:48.812] [WARN] archivowarn - ruta inexistente
3 [2023-03-13T00:57:48.859] [WARN] archivowarn - ruta inexistente
4 [2023-03-13T00:58:40.312] [WARN] archivowarn - ruta inexistente
5 [2023-03-13T01:01:29.328] [WARN] archivowarn - ruta inexistente
6
```

ANALISIS DE PERFORMANCE

```
node --prof server.js
artillery quick --count 50 -n 20 "http://localhost:8080/info" >
result_console.txt
node --prof-process console-v8.log > result_prof-console.txt
```

```
node --prof server.js
artillery quick --count 50 -n 20 "http://localhost:8080/info" >
result_noneconsole.txt
node --prof-process noneconsole-v8.log > result_prof-noneconsole.txt
```

En ambos casos obtuve el siguiente error:

```
error: Please provide a valid isolate file as the final argument.
```

NODE INSPECT CON CONSOLA

DevTools - Node.js

DevTools is now available in Spanish! [Always match Chrome's language](#) [Switch DevTools to Spanish](#) [Don't show again](#)

Connection Console Profiler Sources Memory

Heavy (Bottom Up) X

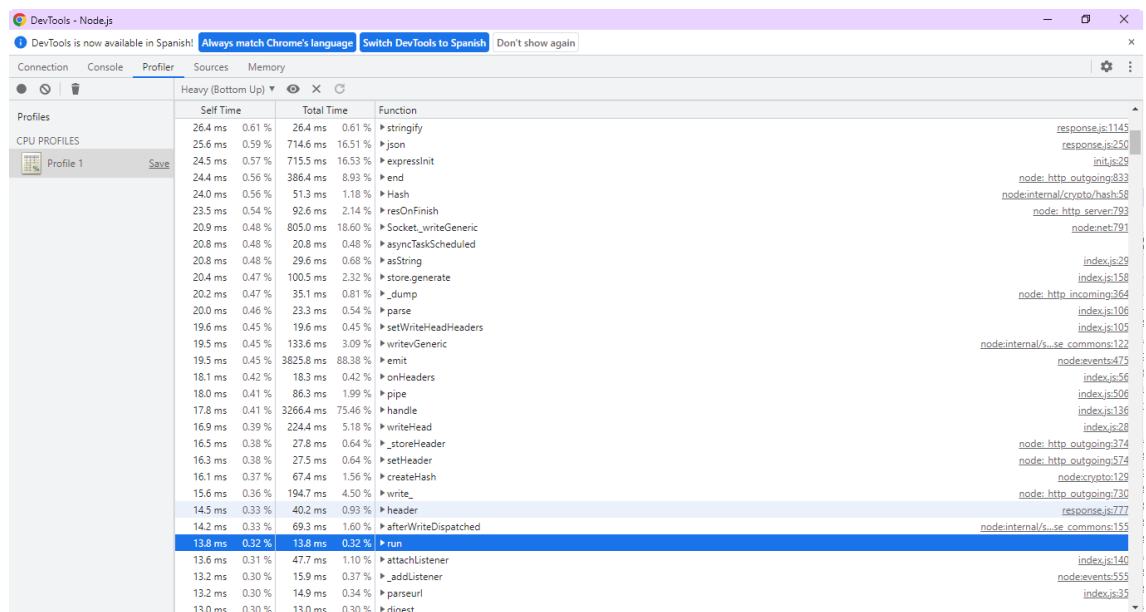
Profiles

CPU PROFILES

Profile 1 Save

Self Time	Total Time	Function	
29.7 ms	0.37 %	31.8 ms	0.40 % ▶_addListener node:events:555
27.3 ms	0.34 %	41.5 ms	0.52 % ▶writeHead node:http_server:270
25.4 ms	0.32 %	562.9 ms	7.06 % ▶send response.js:111
24.1 ms	0.30 %	3461.1 ms	43.43 % ▶Socket_writeGeneric node:net:791
23.6 ms	0.30 %	23.6 ms	0.30 % ▶asyncTaskScheduled
22.3 ms	0.28 %	343.2 ms	4.31 % ▶end node:http_outgoing:833
22.3 ms	0.28 %	22.3 ms	0.28 % ▶setWriteHeadHeaders index.js:105
22.2 ms	0.28 %	641.2 ms	8.05 % ▶expressInit init.js:29
21.5 ms	0.27 %	7502.4 ms	94.14 % ▶emit node:events:475
20.0 ms	0.25 %	636.1 ms	7.98 % ▶json response.js:250
19.3 ms	0.24 %	136.7 ms	1.72 % ▶formatRaw node:internal/util/inspect:820
18.0 ms	0.23 %	92.7 ms	1.16 % ▶store.generate index.js:158
17.8 ms	0.22 %	3284.1 ms	41.21 % ▶log node:internal/c_...onstructor:359
17.1 ms	0.21 %	3249.6 ms	40.78 % ▶handleWriteReq node:internal/s_...se_commons:45
17.0 ms	0.21 %	19.9 ms	0.25 % ▶clearIncoming node:http_server:734
17.0 ms	0.21 %	17.0 ms	0.21 % ▶stringify response.js:1145
17.0 ms	0.21 %	17.1 ms	0.21 % ▶onHeaders index.js:56
16.8 ms	0.21 %	16.8 ms	0.21 % ▶digest
16.7 ms	0.21 %	192.3 ms	2.41 % ▶value node:internal/c_...onstructor:321
16.5 ms	0.21 %	66.3 ms	0.83 % ▶pipe index.js:506
16.4 ms	0.21 %	17.8 ms	0.22 % ▶strEscape node:internal/util/inspect:475
16.1 ms	0.20 %	36.2 ms	0.45 % ▶header response.js:777
15.7 ms	0.20 %	169.4 ms	2.13 % ▶write_ node:http_outgoing:730
14.4 ms	0.18 %	14.4 ms	0.18 % ▶removeColors node:internal/util:76
14.1 ms	0.18 %	14.1 ms	0.18 % ▶run
14.1 ms	0.18 %	14.1 ms	0.18 % ▶randomFillSync node:internal/c_...eto/random:111
13.6 ms	0.17 %	13.8 ms	0.17 % ▶parseurl index.js:35
13.3 ms	0.17 %	128.3 ms	1.61 % ▶writeGeneric node:internal/s_...se_commons:122
12.9 ms	0.16 %	61.5 ms	0.77 % ▶attachListener index.js:140
12.8 ms	0.16 %	611.9 ms	7.68 % ▶urlencodedParser urlencoded.js:79

NODE INSPECT SIN CONSOLA



AUTOCANNON BENCHMARKS.JS CON CONSOLA



AUTOCANNON BENCHMARKS.JS CON CONSOLA

```
> node benchmarks.js
```

```
Running all benchmarks in parallel...  
Running 20s test @ http://localhost:8080/info  
100 connections
```

Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	123 ms	184 ms	473 ms	594 ms	206.93 ms	88.35 ms	792 ms

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	255	255	490	722	481.2	117.49	255
Bytes/Sec	168 kB	168 kB	323 kB	477 kB	317 kB	77.6 kB	168 kB

```
Req/Bytes counts sampled once per second.  
# of samples: 20
```

```
10k requests in 20.33s, 6.35 MB read
```

GRAFICO 0x CON CONSOLA



GRAFICO 0x SIN CONSOLA



CONCLUSION:

En base a los informes obtenidos del análisis de performance se puede concluir que la utilización de funciones bloqueantes como es `console.log` perjudica el rendimiento del servidor, así mismo cobra gran relevancia la utilización del servidor en modo CLUSTER, ya que este modo de ejecución permite agilizar los procesos o solicitudes que se realizan en el.