

# Desafío: Loggers, gzip y análisis de performance

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## Información Preliminar:

Ejecutar mongo desde el archivo INICIAR MONGODB.bat ubicado en la carpeta /node/public

Para la realización de este desafío se utilizaron los siguientes comandos por consola:

### Artillery:

```
artillery quick --count 50 -n 20 http://localhost:8000/info > result_conConsoleLog.txt  
artillery quick --count 50 -n 20 http://localhost:8000/info > result_sinConsoleLog.txt
```

### Profiling:

```
node --prof-process isolate-conConsoleLog.log > result_conConsoleLog_prof.txt  
node --prof-process isolate-sinConsoleLog.log > result_sinConsoleLog_prof.txt
```

### Artillery con Inspect:

```
artillery quick --count 50 -n 20 http://localhost:8000/info > result_conConsoleLog_conInspect.txt  
artillery quick --count 50 -n 20 http://localhost:8000/info > result_sinConsoleLog_sinInspect.txt
```

Codigo con/sin console.log:

```
127 app.get("/info", (req, res) => {  
128   const informacion = {  
129     Argumentos: args,  
130     Plataforma: process.platform,  
131     ID: process.pid,  
132     Version: process.version,  
133     Memoria: process.memoryUsage(),  
134     Path: process.execPath,  
135     Carpeta: process.cwd()  
136   }  
137   console.log(informacion) //esta es la linea que agreg  
138   res.json(informacion);  
139 })
```

## Conclusión:

Puede verse por los resultados obtenidos que el rendimiento se ve afectado por el agregado de cualquier función, particularmente las que están relacionadas con la función process (como console.log).

Si bien los resultados no son totalmente concluyentes al aplicar artillery puede verse en el inspect que la función console.log agrega tiempo adicional.

# Resultado usando Artillery

## *Sin console.log*

Running scenarios...

Phase started: unnamed (index: 0, duration: 1s) 21:45:11(-0300)

Phase completed: unnamed (index: 0, duration: 1s) 21:45:12(-0300)

-----  
Metrics for period to: 21:45:20(-0300) (width: 8.527s)  
-----

http.codes.200: ..... 415  
http.request\_rate: ..... 53/sec  
http.requests: ..... 445  
http.response\_time:  
  min: ..... 3  
  max: ..... 1840  
  median: ..... 424.2  
  p95: ..... 788.5  
  p99: ..... 1153.1  
http.responses: ..... 415  
vusers.created: ..... 50  
vusers.created\_by\_name.0: ..... 50

All VUs finished. Total time: 25 seconds

-----  
Summary report @ 21:45:34(-0300)  
-----

http.codes.200: ..... 1000  
http.request\_rate: ..... 22/sec  
http.requests: ..... 1000  
http.response\_time:  
  min: ..... 3  
  max: ..... 2492  
  median: ..... 468.8  
  p95: ..... 907  
  p99: ..... 1556.5  
http.responses: ..... 1000  
vusers.completed: ..... 50  
vusers.created: ..... 50  
vusers.created\_by\_name.0: ..... 50  
vusers.failed: ..... 0  
vusers.session\_length:  
  min: ..... 18683.7  
  max: ..... 21720.1  
  median: ..... 19737.6  
  p95: ..... 20958.1  
  p99: ..... 21381.5

## Con console.log

Running scenarios...

Phase started: unnamed (index: 0, duration: 1s) 21:29:29(-0300)

Phase completed: unnamed (index: 0, duration: 1s) 21:29:30(-0300)

-----  
Metrics for period to: 21:29:30(-0300) (width: 0.918s)  
-----

http.codes.200: ..... 50  
http.request\_rate: ..... 69/sec  
http.requests: ..... 69  
http.response\_time:  
  min: ..... 1  
  max: ..... 333  
  median: ..... 2  
  p95: ..... 327.1  
  p99: ..... 327.1  
http.responses: ..... 50  
vusers.created: ..... 47  
vusers.created\_by\_name.0: ..... 47

All VUs finished. Total time: 25 seconds

-----  
Summary report @ 21:29:52(-0300)  
-----

http.codes.200: ..... 1000  
http.request\_rate: ..... 29/sec  
http.requests: ..... 1000  
http.response\_time:  
  min: ..... 1  
  max: ..... 2424  
  median: ..... 376.2  
  p95: ..... 925.4  
  p99: ..... 1043.3  
http.responses: ..... 1000  
vusers.completed: ..... 50  
vusers.created: ..... 50  
vusers.created\_by\_name.0: ..... 50  
vusers.failed: ..... 0  
vusers.session\_length:  
  min: ..... 17375.4  
  max: ..... 19426.7  
  median: ..... 18588.1  
  p95: ..... 19346.7  
  p99: ..... 19346.7

## Resultados usando Inspect+Artillery

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### Con Console.Log

101		app.use(function(req,res,next){
102	22.2 ms	req.session._garbage = Date();
103	0.9 ms	req.session.touch();
104		next()
105		})
106		
107		app.use(function (req, res, next) {
108	6.4 ms	logger.info(req.method + " " + req.url);
109	1.6 ms	next();
110		});
111		
112		app.use('/api/productos',routerProductos);
113		app.use('/api/productos-test',routerProductostest);
114		app.use('/api/randoms',randoms);
115		app.use('/login',routerLogin);
116		
117		app.get('/', async (req, res) => {
118		if (req.session.user) res.redirect("/login")
119		else res.redirect("/login")
120		});
121		
122		
123		app.get("/info",(req,res)=>{
124	0.9 ms	const informacion = {
125	0.3 ms	Argumentos: args,
126	0.6 ms	Plataforma: process.platform,
127	0.3 ms	ID: process.pid,
128	0.7 ms	Version: process.version,
129	1.6 ms	Memoria:process.memoryUsage(),
130	0.6 ms	Path:process.execPath,
131	0.6 ms	Carpeta: process.cwd()
132		}
133	8.0 ms	console.log(informacion)//esta es la línea que agrego
134	17.6 ms	res.json(informacion);
135		//res.send("asdasd".repeat(1000))
136		})
137		
138		app.get('*', (req, res)=>{
139		logger.warn(req.method + " " + req.url);
140		res.status(404).send('sitio no encontrado');
141		});

## Sin Console.Log

```
101 app.use(function(req,res,next){
102   20.8 ms req.session._garbage = Date();
103   0.6 ms req.session.touch();
104   next()
105 })
106
107 app.use(function (req, res, next) {
108   4.1 ms logger.info(req.method + " " + req.url);
109   2.1 ms next();
110 });
111
112 app.use('/api/productos',routerProductos);
113 app.use('/api/productos-test',routerProductostest);
114 app.use('/api/randoms',randoms);
115 app.use('/login',routerLogin);
116
117 app.get('/', async (req, res) => {
118   if (req.session.user) res.redirect("/login")
119   else res.redirect("/login")
120 });
121
122
123 app.get("/info",(req,res)=>{
124   0.4 ms const informacion = {
125   0.6 ms   Argumentos: args,
126   0.5 ms   Plataforma: process.platform,
127   0.4 ms   ID: process.pid,
128   0.4 ms   Version: process.version,
129   1.3 ms   Memoria:process.memoryUsage(),
130   0.3 ms   Path:process.execPath,
131   0.5 ms   Carpeta: process.cwd()
132 }
133 //console.log(informacion)//esta es la linea que agrego
134   9.4 ms res.json(informacion);
135   //res.send("asdasd".repeat(1000))
136 })
```

# Resultados Obtenidos con Autocannon

## Con console.log

```
Eduardo@DESKTOP-JH2OVV1 MINGW64 ~/Documents/Documentacion personal/Cursos/CoderHouse/Back End/Desafio-Backend/main)
$ npm test
npm WARN config global `--global`, `--local` are deprecated. Use `--location=global` instead.

> desafio-backend@1.0.0 test
> node benchmark.js

Running all benchmarks in parallel ...
Running 20s test @ http://localhost:8000/info
100 connections
```

Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	830 ms	1004 ms	1844 ms	2004 ms	1057.43 ms	237.08 ms	2849 ms

  

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	20	20	95	99	90.95	16.36	20
Bytes/Sec	8.36 kB	8.36 kB	39.8 kB	41.4 kB	38.1 kB	6.85 kB	8.36 kB

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

2k requests in 20.28s, 761 kB read

## Sin console.log

```
Eduardo@DESKTOP-JH2OVV1 MINGW64 ~/Documents/Documentacion personal/Cursos/CoderHouse/Back End/Desafio-Backend/node/public (main)
$ npm test
npm WARN config global `--global`, `--local` are deprecated. Use `--location=global` instead.

> desafio-backend@1.0.0 test
> node benchmark.js

Running all benchmarks in parallel ...
Running 20s test @ http://localhost:8000/info
100 connections
```

Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	334 ms	1017 ms	1982 ms	2136 ms	1097.58 ms	388.11 ms	3497 ms

  

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	15	15	95	110	87.3	21.99	15
Bytes/Sec	12.4 kB	12.4 kB	78.8 kB	91.2 kB	72.3 kB	18.2 kB	12.4 kB

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

2k requests in 20.24s, 1.45 MB read