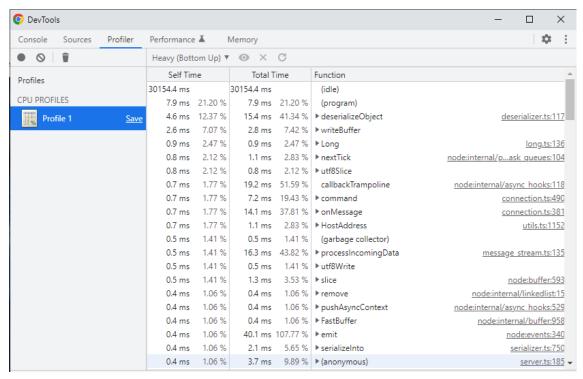
## Tercera Entrega Final - Prueba Performance - Luiggi Marquez

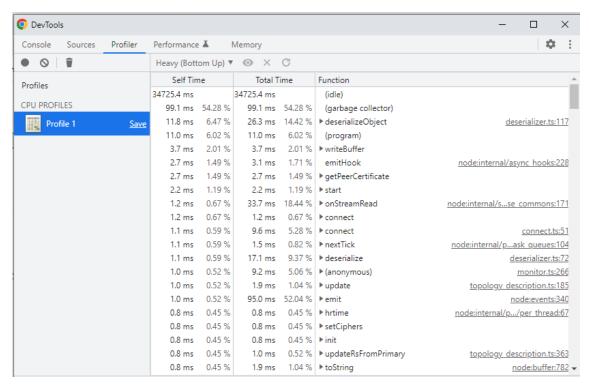
Prueba realizada con Cluster en la ruta http://localhost:8081/products



Phase started: unnamed (index: 0, duration: 1s) 00:47:48(-0300)	
Phase completed: unnamed (index: 0, duration: 1s) 00:47:51(-0300)	
Metrics for period to: 00:47:50(-0300) (width: 1.414s)	
metrics for period to. 66.47.56(-6566) (width: 1.4145)	
http.codes.200:	295
http.request_rate:	237/sec
http.requests:	319
http.response_time:	
min:	
max:	
median:	
p95:	
p99: http.responses:	
vusers.completed:	
vusers.created:	
vusers.created by name.0:	
vusers.failed:	
vusers.session_length:	
min:	1125.9
max:	1305.9
median:	1274.3
p95:	
p99:	1274.3

Metrics for period to: 00:48:00(-0300) (width: 2.393s)	
http.codes.200:	705
http.request_rate:	285/sec
http.requests:	681
http.response_time:	
min:	1
max:	186
median:	66
p95:	
p99:	
http.responses:	
vusers.completed:	
vusers.created:	
vusers.created_by_name.0:	22
vusers.failed:	0
vusers.session_length:	
min:	
max:	1965.2
median:	
p95:	
p99:	1939.5
p99:	1939.5
	1939.5
p99:	1939.5
	1939.5
All VUs finished. Total time: 4 seconds	1939.5
	1939.5
All VUs finished. Total time: 4 seconds	1939.5
All VUs finished. Total time: 4 seconds	
All VUs finished. Total time: 4 seconds	1000
All VUs finished. Total time: 4 seconds	1000 261/sec
All VUs finished. Total time: 4 seconds	1000 261/sec
All VUs finished. Total time: 4 seconds  Summary report @ 00:47:53(-0300)  http.codes.200: http.request_rate: http.requests: http.response_time:	1000 261/sec 1000
All VUs finished. Total time: 4 seconds	1000 261/sec 1000
All VUs finished. Total time: 4 seconds	1000 261/sec 1000
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5 1000
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5 1000 50
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5 1000 50
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5 1000 50 50
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5 1000 50 50
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5 1000 50 50 50
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5 1000 50 50 0
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5 1000 50 50 50 0 913.8 1965.2
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5 1000 50 50 0 913.8 1965.2 1556.5
All VUs finished. Total time: 4 seconds	1000 261/sec 1000 1 186 172.5 1000 50 50 50 913.8 1965.2 1556.5 1901.1

Prueba realizada sin Cluster en la ruta http://localhost:8081/products



```
Phase started: unnamed (index: 0, duration: 1s) 00:50:51(-0300)
Phase completed: unnamed (index: 0, duration: 1s) 00:50:52(-0300)
Metrics for period to: 00:51:00(-0300) (width: 6.03s)
http.codes.200: 1000
http.response_time:
median: 198.4
http.responses: 1000
vusers.completed: ..... 50
vusers.created_by_name.0: 50
vusers.failed: 0
vusers.session_length:
max: 4764.4
```

```
All VUs finished. Total time: 7 seconds
Summary report @ 00:50:58(-0300)
http.response_time:
min: ...... 4
p99:
http.responses:
vusers.completed: ....
vusers.created:
vusers.failed: ..... 0
vusers.session_length:
```

Para la prueba del profiling, se utilizó artillery con:

artillery quick --count 50 --num 20 'http://localhost:8081/products'

Se ejecutaron 50 solicitudes con 20 peticiones GET; para le profiling se usó la herramienta de Chrome *DevTools for Node* en **chrome://inspect/** pestaña profiler, corriendo el server **como node --inspect server.js.** De estos resultados, podemos ver que con el Cluster activado (para el caso de esta prueba el procesador tiene 4 hilos), se ejecuta 4600 ms segundos más rápido: 30154ms contra 34725ms. Usando los Cluster distribuimos los recursos de nuestro hardware y se usan con mas eficiencia: al dividir el trabajo se realiza en menor tiempo, disminuyendo el tiempo que se gasta ejecutando nuestra app.