Los siguientes datos fueron obtenidos utilizando la funcion “console.log()” en la ruta /info (modo fork):

Artillery con params -c 20 -n 50:

Running scenarios...
Phase started: unnamed (index: 0, duration: 1s) 19:57:11(-0300)

Phase completed: unnamed (index: 0, duration: 1s) 19:57:12(-0300)

All VUs finished. Total time: 5 seconds

Summary report @ 19:57:15(-0300)
---

http.codes.200: 1000
http.request_rate: 146/sec
http.requests: 1000
http.response_time:
  min: 4
  max: 83
  median: 54.1
  p95: 71.5
  p99: 79.1
http.responses: 1000
vusers.completed: 20
vusers.created: 20
vusers.created_by_name.0: 20
vusers.failed: 0
vusers.session_length:
  min: 2392
  max: 2745.6
  median: 2618.1
  p95: 2725
  p99: 2725

Autocannon con params -d 20 -c 10:

Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	130 ms	149 ms	263 ms	286 ms	162.18 ms	36.02 ms	395 ms

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	300	300	659	741	612.75	112.08	300
Bytes/Sec	355 kB	355 kB	780 kB	878 kB	725 kB	133 kB	355 kB

Node –inspect con chrome y artillery con params -c 20 -n 50:

Logger:

```
148
149   passport.use("register", registerStrategy);
150   passport.use("login", loginStrategy);
151
152   passport.serializeUser((user, done) => {
153     done(null, user._id);
154   });
155
156   passport.deserializeUser((id, done) => {
157     User.findById(id, done);
158   });
159
160   app.use((req, res, next) => {
161     logger.log("info", `metodo: ${req.method}, ruta:${req.url}`);   4.8 ms
162     next();                                                         0.4 ms
163   });
164
165   app.all("/", async (req, res, next) => {
166     if (req.isAuthenticated()) {
167       return next();
168     }
169     return res.render("login.hbs");
170   });
171
172   app.use(express.static(path.join(__dirname, "../public")));
173
174   app.use(compression());
175
176   app.get("/login", (req, res) => {
177     res.render("login.hbs");
178   });
```

Ruta /info:

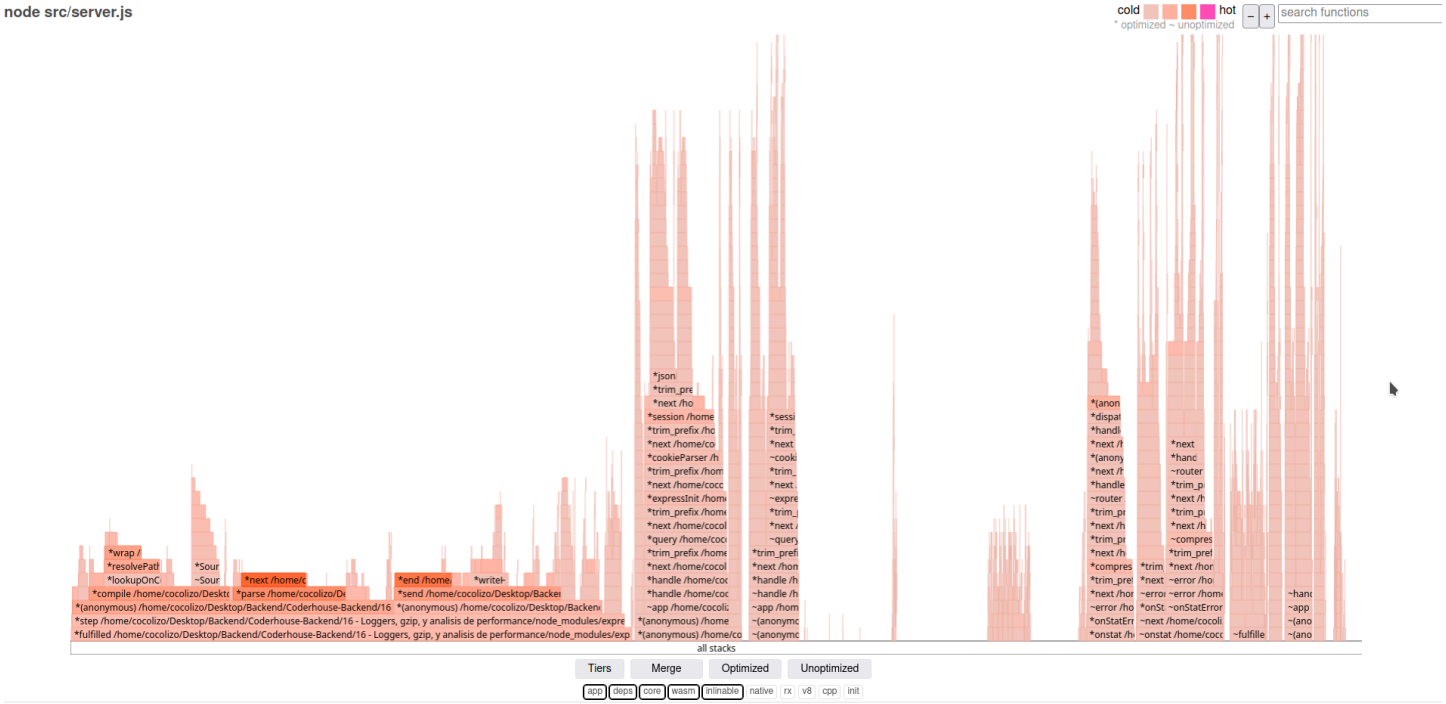
```
288
289    const info = {
290      argumentos: JSON.stringify(args),
291      path: process.execPath,
292      os: process.platform,
293      processid: process.pid,
294      nodev: process.version,
295      folder: process.cwd(),
296      memoria: util.inspect(process.memoryUsage()),
297      procesadores: cpus.length,
298    };
299
300    app.get("/info", (req, res) => {
301      console.log(info)                                             0.8 ms
302      res.render("info.hbs", { info });                             12.7 ms
303    });
304
305    app.get("/*", (req, res) => {
306      logger.log(
307        "warn",
308        `ruta: ${req.url} con metodo: ${req.method} es inexistente`
309      );
310      res.json({
311        Error: `ruta: ${req.url} con metodo: ${req.method} es inexistente`,
312      });
313    });
314  }
315  logger.log("info", isCluster);
316
```

El –prof de node.js procesado con –prof-process: (partes mas relevantes)

```
Statistical profiling result from consolelog-v8.log, (4241 ticks, 5 unaccounted, 0 excluded).

 [Shared libraries]:
   ticks  total  nonlib   name
    3495   82.4%          /usr/local/bin/node
      82    1.9%          /usr/lib/x86_64-linux-gnu/libc-2.31.so
      54    1.3%          [vdso]
       3    0.1%          /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.28

 [JavaScript]:
   ticks  total  nonlib   name
      38    0.9%    6.3%  LazyCompile: *parse /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/parser.js:269:30
      20    0.5%    3.3%  LazyCompile: *wrap /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/code-gen.js:101:22
      17    0.4%    2.8%  LazyCompile: *resolve node:path:1091:10
      13    0.3%    2.1%  LazyCompile: *next /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/parser.js:478:32
      11    0.3%    1.8%  LazyCompile: *SourceNode_walk /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/source-map/lib/source-node.js:221:53
      10    0.2%    1.6%  LazyCompile: *next /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express/lib/router/index.js:177:16
       9    0.2%    1.5%  LazyCompile: *normalizeString node:path:66:25
       7    0.2%    1.2%  LazyCompile: *step /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express-handlebars/dist/express-handlebars.js:31:18
       7    0.2%    1.2%  LazyCompile: *<anonymous> /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express-handlebars/dist/express-handlebars.js:251:47
       5    0.1%    0.8%  LazyCompile: *compile /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/javascript-compiler.js:73:28
       5    0.1%    0.8%  LazyCompile: *anonymous /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/parser.js:12:42
       5    0.1%    0.8%  LazyCompile: *<anonymous> /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/source-map/lib/source-node.js:174:29
       4    0.1%    0.7%  LazyCompile: *processTicksAndRejections node:internal/process/task_queues:68:35
       3    0.1%    0.5%  RegExp: ^(?:\.(?=([=~}\s\/.)|[])))
       3    0.1%    0.5%  RegExp: (?:\r\n?|\n).*
       3    0.1%    0.5%  LazyCompile: *step /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express-handlebars/dist/express-handlebars.js:23:22
       3    0.1%    0.5%  LazyCompile: *preparePath /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/helpers.js:63:21
       3    0.1%    0.5%  LazyCompile: *SourceNode_add /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/source-map/lib/source-node.js:172:51
       3    0.1%    0.5%  Function: ^wrapHelper /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/internal/wrapHelper.js:6:20
       2    0.0%    0.3%  RegExp: ^(?:[^\x00]*?(?=(\{\{)))
       2    0.0%    0.3%  RegExp: [\u0000-\u001f\u0022\u005c\ud800-\udfff]|[\ud800-\udbff](?![\udc00-\udfff])|(?:[^\ud800-\udbff]|^)[\udc00-\udfff]
       2    0.0%    0.3%  RegExp: (?<=\n)
       2    0.0%    0.3%  LazyCompile: *relative node:path:1190:11
       2    0.0%    0.3%  LazyCompile: *normalize node:path:1127:12
       2    0.0%    0.3%  LazyCompile: *formatValue node:internal/util/inspect:745:21
       2    0.0%    0.3%  LazyCompile: *anonymous /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/parser.js:549:49
       2    0.0%    0.3%  LazyCompile: *accept /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/visitor.js:57:26
       2    0.0%    0.3%  LazyCompile: *Module._nodeModulePaths node:internal/modules/cjs/loader:629:37
       2    0.0%    0.3%  LazyCompile: *<anonymous> /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express-handlebars/dist/express-handlebars.js:331:47
       2    0.0%    0.3%  LazyCompile: *<anonymous> /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express-handlebars/dist/express-handlebars.js:30:40
       2    0.0%    0.3%  Function: ^get node:internal/streams/writable:787:8
       2    0.0%    0.3%  Function: ^__awaiter /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express-handlebars/dist/express-handlebars.js:18:54
       2    0.0%    0.3%  Function: ^<anonymous> /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express/lib/request.js:467:36
```

```
 [C++]:
   ticks  total  nonlib   name
      92    2.2%   15.2%  __write
      36    0.8%    5.9%  __libc_read
      30    0.7%    4.9%  fwrite
      19    0.4%    3.1%  epoll_pwait
      15    0.4%    2.5%  std::basic_ostream<char, std::char_traits<char> >& std::__ostream_insert<char, std::char_traits<char> >(std::basic_ostream<char, std::char_traits<char> >&, char const*, long)
      14    0.3%    2.3%  __GI___pthread_mutex_unlock
      13    0.3%    2.1%  __pthread_cond_wait
      12    0.3%    2.0%  __mprotect
       9    0.2%    1.5%  __libc_write
       8    0.2%    1.3%  __pthread_cond_signal
       7    0.2%    1.2%  std::ostream::sentry::sentry(std::ostream&)
       7    0.2%    1.2%  __libc_malloc
       5    0.1%    0.8%  __munmap
       5    0.1%    0.8%  __lll_lock_wait
       4    0.1%    0.7%  syscall
       4    0.1%    0.7%  cfree
       4    0.1%    0.7%  __mmap
       2    0.0%    0.3%  std::_Rb_tree_insert_and_rebalance(bool, std::_Rb_tree_node_base*, std::_Rb_tree_node_base*, std::_Rb_tree_node_base&)
       2    0.0%    0.3%  _IO_padn
       2    0.0%    0.3%  _IO_file_xsputn
       1    0.0%    0.2%  std::ostreambuf_iterator<char, std::char_traits<char> > std::num_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > >::_M_insert_int<long>(std::ostreambuf_iterator<char, std::char_traits<char>
       1    0.0%    0.2%  std::ostream::operator<<(int)
       1    0.0%    0.2%  std::ostream& std::ostream::_M_insert<long>(long)
       1    0.0%    0.2%  std::num_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > >::do_put(std::ostreambuf_iterator<char, std::char_traits<char> >, std::ios_base&, char, long) const
       1    0.0%    0.2%  std::_Rb_tree_decrement(std::_Rb_tree_node_base*)
       1    0.0%    0.2%  shutdown
       1    0.0%    0.2%  operator new[](unsigned long)
       1    0.0%    0.2%  operator new(unsigned long)
       1    0.0%    0.2%  do_futex_wait.constprop.0
       1    0.0%    0.2%  __clock_gettime
       1    0.0%    0.2%  __GI___pthread_rwlock_unlock
       1    0.0%    0.2%  _IO_default_xsputn

 [Summary]:
   ticks  total  nonlib   name
     300    7.1%   49.4%  JavaScript
     302    7.1%   49.8%  C++
     146    3.4%   24.1%  GC
    3634   85.7%          Shared libraries
       5    0.1%          Unaccounted

 [C++ entry points]:
   ticks    cpp   total   name
      69   39.7%    1.6%  __write
      29   16.7%    0.7%  fwrite
      14    8.0%    0.3%  std::basic_ostream<char, std::char_traits<char> >& std::__ostream_insert<char, std::char_traits<char> >(std::basic_ostream<char, std::char_traits<char> >&, char const*, long)
       9    5.2%    0.2%  __mprotect
       9    5.2%    0.2%  __libc_write
       8    4.6%    0.2%  __GI___pthread_mutex_unlock
       6    3.4%    0.1%  std::ostream::sentry::sentry(std::ostream&)
       6    3.4%    0.1%  __libc_malloc
       4    2.3%    0.1%  syscall
```

Diagrama de flama con 0x, autocannon con params -d20 -c100:



Los siguientes datos fueron obtenidos SIN utilizar la funcion “console.log()” en la ruta /info (modo fork):

Artillery con params -c 20 -n 50:

Running scenarios...
Phase started: unnamed (index: 0, duration: 1s) 19:56:11(-0300)

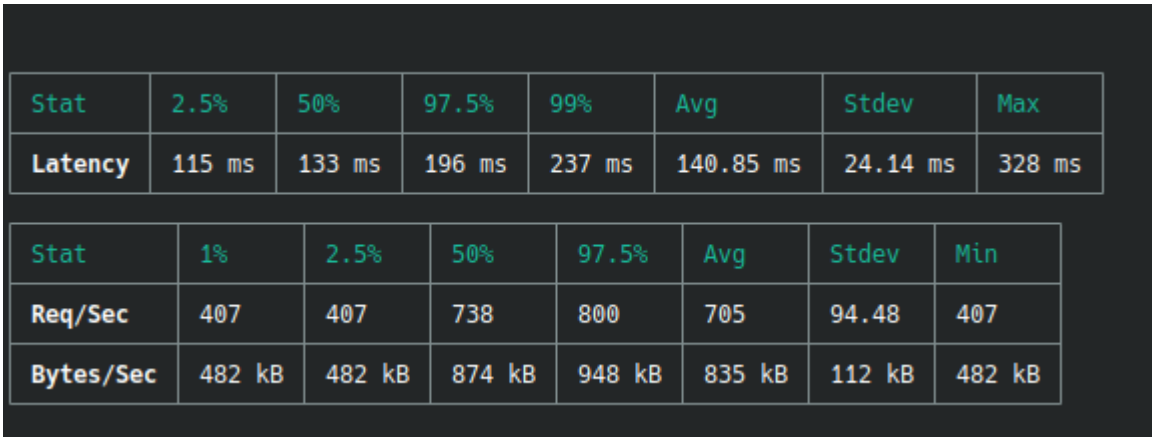
Phase completed: unnamed (index: 0, duration: 1s) 19:56:12(-0300)

All VUs finished. Total time: 5 seconds

Summary report @ 19:56:16(-0300)
---

http.codes.200: 1000
http.request_rate: 173/sec
http.requests: 1000
http.response_time:
  min: 3
  max: 91
  median: 43.4
  p95: 59.7
  p99: 85.6
http.responses: 1000
vusers.completed: 20
vusers.created: 20
vusers.created_by_name.0: 20
vusers.failed: 0
vusers.session_length:
  min: 1934.2
  max: 2279.2
  median: 2143.5
  p95: 2276.1
  p99: 2276.1

Autocannon con params -d 20 -c 10:



Stat	2.5%	50%	97.5%	99%	Avg	Stdev	Max
Latency	115 ms	133 ms	196 ms	237 ms	140.85 ms	24.14 ms	328 ms

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	407	407	738	800	705	94.48	407
Bytes/Sec	482 kB	482 kB	874 kB	948 kB	835 kB	112 kB	482 kB

Node –inspect con chrome y artillery con params -c 20 -n 50:

Logger:

```
148
149         passport.use("register", registerStrategy);
150         passport.use("login", loginStrategy);
151
152         passport.serializeUser((user, done) => {
153           done(null, user._id);
154         });
155
156         passport.deserializeUser((id, done) => {
157           User.findById(id, done);
158         });
159
160         app.use((req, res, next) => {
161   2.4 ms  logger.log("info", `metodo: ${req.method}, ruta:${req.url}`);
162           next();
163         });
164
165         app.all("/", async (req, res, next) => {
166           if (req.isAuthenticated()) {
167             return next();
168           }
169           return res.render("login.hbs");
170         });
171
172         app.use(express.static(path.join(__dirname, "../public")));
173
174         app.use(compression());
175
176         app.get("/login", (req, res) => {
177           res.render("login.hbs");
178         });
```

Ruta /info:

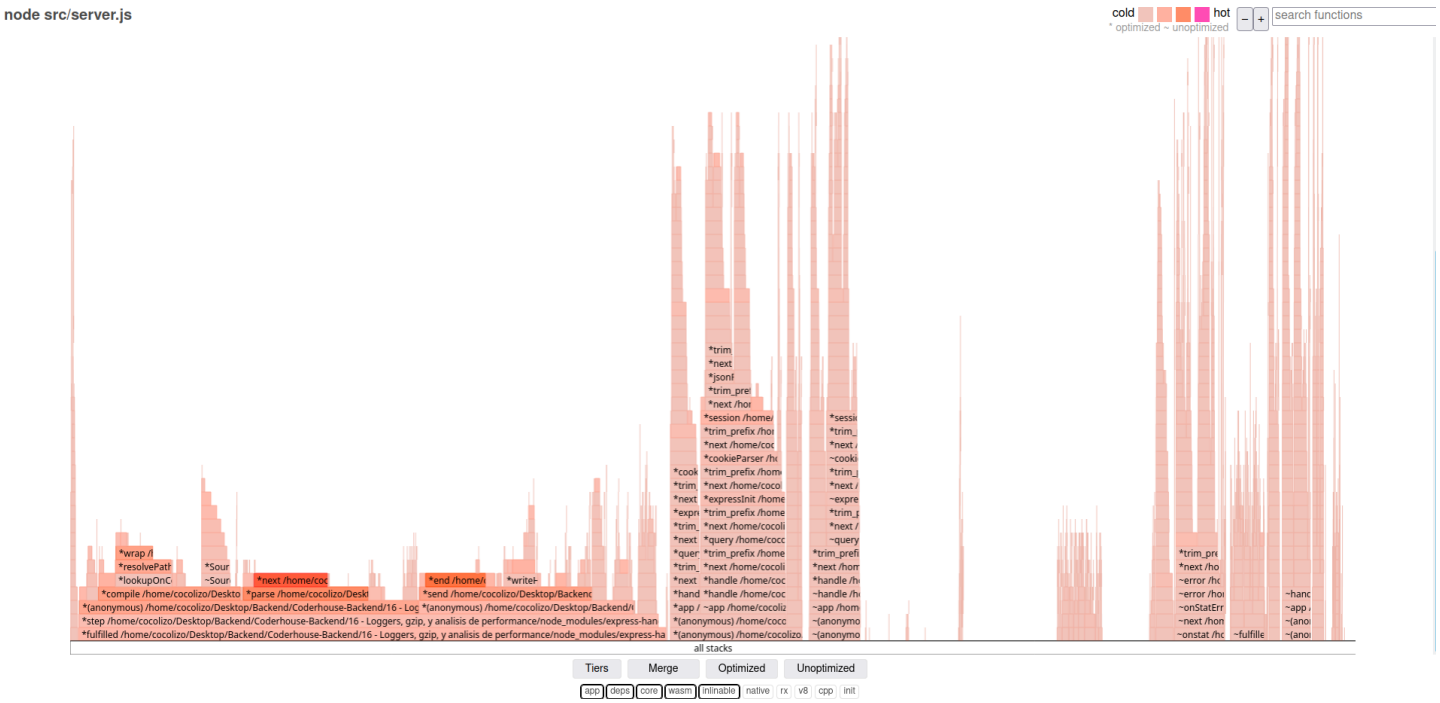
```
288
289         const info = {
290           argumentos: JSON.stringify(args),
291           path: process.execPath,
292           os: process.platform,
293           processid: process.pid,
294           nodev: process.version,
295           folder: process.cwd(),
296           memoria: util.inspect(process.memoryUsage()),
297           procesadores: cpus.length,
298         };
299
300         app.get("/info", (req, res) => {
301           //console.log(info)
302   2.4 ms  res.render("info.hbs", { info });
303         });
304
305         app.get("/*", (req, res) => {
306           logger.log(
307             "warn",
308             `ruta: ${req.url} con metodo: ${req.method} es inexistente`
309           );
310           res.json({
311             Error: `ruta: ${req.url} con metodo: ${req.method} es inexistente`,
312           });
313         });
314       }
315       logger.log("info", isCluster);
316
```

El –prof de node.js procesado con –prof-process: (partes mas relevantes)

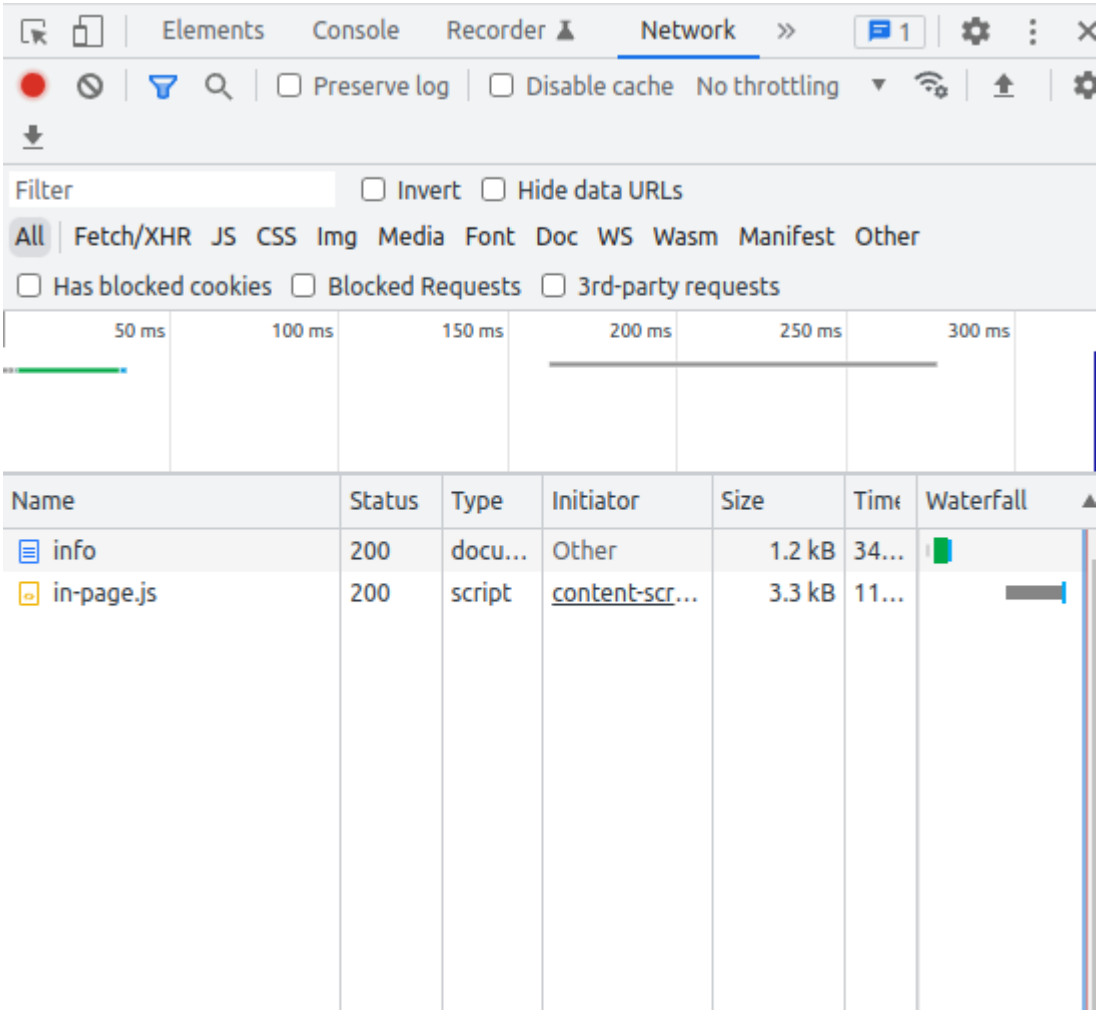
```
Statistical profiling result from noconsolelog-v8.log, (3876 ticks, 10 unaccounted, 0 excluded).

 [Shared libraries]:
   ticks  total  nonlib   name
    3186   82.2%          /usr/local/bin/node
      61    1.6%          [vdso]
      55    1.4%          /usr/lib/x86_64-linux-gnu/libc-2.31.so

 [JavaScript]:
   ticks  total  nonlib   name
      43    1.1%    7.5%  LazyCompile: *parse /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/parser.js:269:30
      28    0.7%    4.9%  LazyCompile: *wrap /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/code-gen.js:101:22
      28    0.7%    4.9%  LazyCompile: *resolve node:path:1091:10
      14    0.4%    2.4%  LazyCompile: *next /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/parser.js:478:32
      12    0.3%    2.1%  LazyCompile: *SourceNode_walk /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/source-map/lib/source-node.js:221:53
       9    0.2%    1.6%  LazyCompile: *normalizeString node:path:66:25
       6    0.2%    1.0%  LazyCompile: *next /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express/lib/router/index.js:177:16
       5    0.1%    0.9%  LazyCompile: *step /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express-handlebars/dist/express-handlebars.js:31:18
       5    0.1%    0.9%  LazyCompile: *compile /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/javascript-compiler.js:73:28
       5    0.1%    0.9%  LazyCompile: *accept /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/compiler.js:101:26
       4    0.1%    0.7%  LazyCompile: *resolvePath /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/javascript-compiler.js:492:36
       4    0.1%    0.7%  LazyCompile: *anonymous /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/parser.js:12:42
       3    0.1%    0.5%  RegExp: \/+
       3    0.1%    0.5%  RegExp: (?:\r\n?|\n).*
       3    0.1%    0.5%  LazyCompile: *relative node:path:1190:11
       3    0.1%    0.5%  LazyCompile: *anonymous /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/parser.js:549:49
       3    0.1%    0.5%  LazyCompile: *WhitespaceControl.Program /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/whitespace-control.js:19:48
       3    0.1%    0.5%  LazyCompile: *<anonymous> /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express-handlebars/dist/express-handlebars.js:251:47
       2    0.1%    0.3%  RegExp: ^(?:\{\{(~)?\/)
       2    0.1%    0.3%  RegExp: ^(?:\{\{(~)?#\*?)
       2    0.1%    0.3%  RegExp: \r?\n\s*?$
       2    0.1%    0.3%  RegExp: (^|\r?\n)\s*?$
       2    0.1%    0.3%  LazyCompile: *syncExports node:internal/bootstrap/loaders:287:14
       2    0.1%    0.3%  LazyCompile: *nextTick node:internal/process/task_queues:104:18
       2    0.1%    0.3%  LazyCompile: *emit node:events:475:44
       2    0.1%    0.3%  LazyCompile: *castChunk /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/code-gen.js:52:19
       2    0.1%    0.3%  LazyCompile: *accept /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/visitor.js:57:26
       2    0.1%    0.3%  LazyCompile: *SourceNode_add /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/source-map/lib/source-node.js:172:51
       2    0.1%    0.3%  LazyCompile: *PathExpression /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/compiler/compiler.js:289:42
       2    0.1%    0.3%  Function: ^wrapHelper /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/handlebars/dist/cjs/handlebars/internal/wrapHelper.js:6:20
       2    0.1%    0.3%  Function: ^randomFillSync node:internal/crypto/random:111:24
       2    0.1%    0.3%  Function: ^query /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/express/lib/middleware/query.js:39:24
       2    0.1%    0.3%  Function: ^initialize /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/passport/lib/middleware/initialize.js:51:29
       2    0.1%    0.3%  Function: ^<anonymous> /home/cocolizo/Desktop/Backend/Coderhouse-Backend/16 - Loggers, gzip, y analisis de performance/node_modules/socket.io/dist/index.js:262:27
```

```
 [C++]:
   ticks  total  nonlib   name
      81    2.1%   14.1%  __write
      34    0.9%    5.9%  __libc_read
      19    0.5%    3.3%  epoll_pwait
      18    0.5%    3.1%  fwrite
      16    0.4%    2.8%  __pthread_cond_wait
      13    0.3%    2.3%  __GI___pthread_mutex_unlock
      12    0.3%    2.1%  std::basic_ostream<char, std::char_traits<char> >& std::__ostream_insert<char, std::char_traits<char> >(std::basic_ostream<char, std::char_traits<char> >&, char const*, long)
      12    0.3%    2.1%  __mprotect
      10    0.3%    1.7%  __libc_malloc
       8    0.2%    1.4%  _IO_file_xsputn
       7    0.2%    1.2%  __lll_lock_wait
       3    0.1%    0.5%  syscall
       3    0.1%    0.5%  std::ostream::sentry::sentry(std::ostream&)
       3    0.1%    0.5%  cfree
       3    0.1%    0.5%  __pthread_cond_signal
       3    0.1%    0.5%  __mmap
       2    0.1%    0.3%  std::ostreambuf_iterator<char, std::char_traits<char> > std::num_put<char, std::ostreambuf_iterator<char, std::char_traits<char> > >::_M_insert_int<long>(std::ostreambuf_iterator<char, std::char_traits<char>
       2    0.1%    0.3%  operator delete(void*)
       2    0.1%    0.3%  __GI___pthread_rwlock_wrlock
       1    0.0%    0.2%  std::ostream::put(char)
       1    0.0%    0.2%  std::ostream& std::ostream::_M_insert<unsigned long>(unsigned long)
       1    0.0%    0.2%  std::__detail::_Prime_rehash_policy::_M_next_bkt(unsigned long) const
       1    0.0%    0.2%  operator new(unsigned long)
       1    0.0%    0.2%  operator delete[](void*)
       1    0.0%    0.2%  fflush
       1    0.0%    0.2%  accept4
       1    0.0%    0.2%  __vsnprintf
       1    0.0%    0.2%  __munmap
       1    0.0%    0.2%  __libc_write
       1    0.0%    0.2%  __clock_gettime
       1    0.0%    0.2%  __GI___pthread_rwlock_unlock
       1    0.0%    0.2%  _IO_setb
       1    0.0%    0.2%  _IO_padn
       1    0.0%    0.2%  _IO_file_sync
       1    0.0%    0.2%  _IO_default_xsputn

 [Summary]:
   ticks  total  nonlib   name
     297    7.7%   51.7%  JavaScript
     267    6.9%   46.5%  C++
     136    3.5%   23.7%  GC
    3302   85.2%          Shared libraries
      10    0.3%          Unaccounted

 [C++ entry points]:
   ticks    cpp   total   name
      51   36.4%    1.3%  __write
      16   11.4%    0.4%  fwrite
      12    8.6%    0.3%  std::basic_ostream<char, std::char_traits<char> >& std::__ostream_insert<char, std::char_traits<char> >(std::basic_ostream<char, std::char_traits<char> >&, char const*, long)
      10    7.1%    0.3%  __mprotect
       8    5.7%    0.2%  __libc_malloc
       8    5.7%    0.2%  _IO_file_xsputn
```

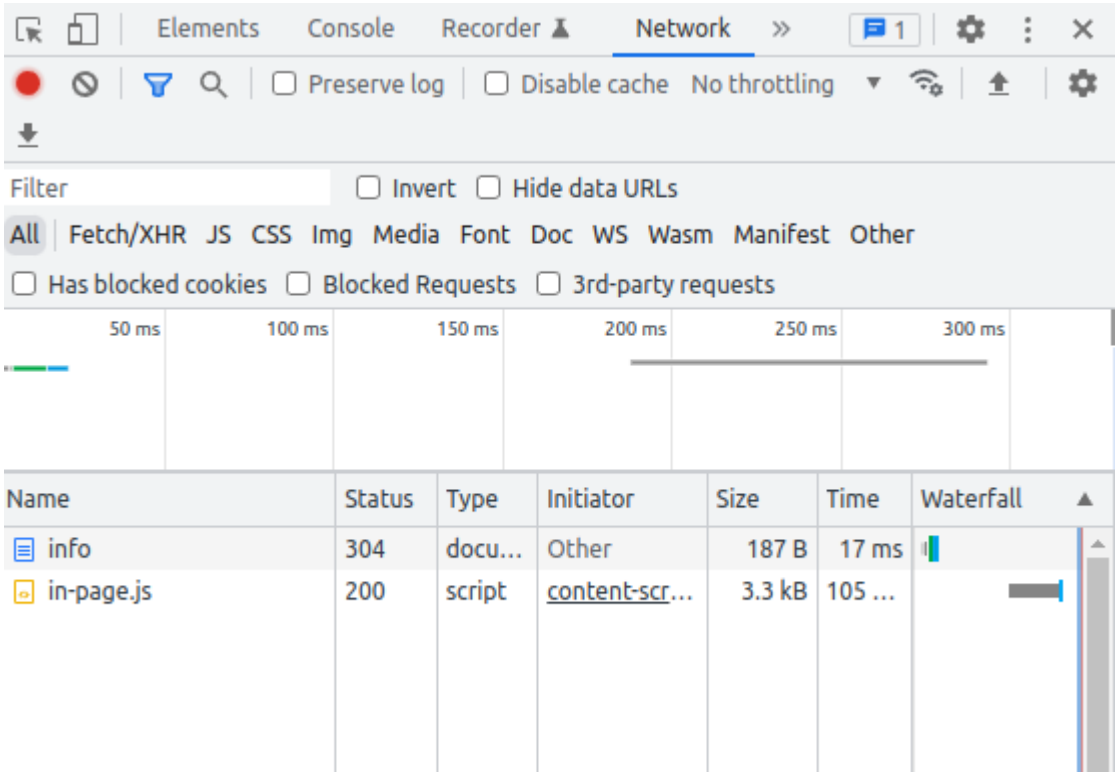
Diagrama de flama con 0x, autocannon con params -d20 -c100:



Ruta /info sin utilizar “compression()”:



Ruta /info utilizando “compression()”:



Conclusiones:

Observando los datos obtenidos se puede entender que al no utilizar la funcion “console.log()” en la ruta de /info, los request a esta misma ruta tuvieron una respuesta mas rapida que al utilizar la funcion “console.log()” .
Asimismo se ve una mayor optimizacion en el codigo, si interpretamos el grafico de flama, ya que cuando no se utiliza “console.log()” se ven picos mas “delgados” a la derecha del diagrama.
Tanto Artillery como Autocannon nos dan una idea muy clara de los tiempos de respuesta con y sin console.log(), esta a la vista la velocidad de respuesta en cada caso.
En tanto en el modo -inspect con chrome se puede ver el tiempo de los procesos menos performantes se multiplican hasta 5 veces utilizando “console.log()”
En el –prof de node se puede tomar la diferencia de “ticks” lo que da a lugar como interpretacion de que se realizaron mas operaciones cuando el codigo se corre con la funcion “console.log()”, haciendo de este un codigo menos optimizado.

Sin lugar a dudas no utilizar console.log() en la ruta de /info nos da un mayor rendimiento al hacer requests a esta ruta, por lo que como conclusion puedo decir que no es aconsejable el utilizar console.log() en el codigo, en especial cuando no esta en etapa de desarrollo.

Asimismo esta claro que es recomendable utilizar compression() en todas las rutas de nuestro proyecto, ya que el temaño de las paginas es considerablemente menor a cuando no se utiliza, en nuestra prueba en la ruta /info fue de casi 7 veces menor el tamaño.