

Entrega 30 - CLUSTERS -

NODEMON

```
House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$ nodemon server.js 8080 cluster
[nodemon] 2.0.15
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node server.js 8080 cluster`
Servidor On-LINE escuchando en puerto: 8080
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House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$ nodemon server.js 8080
[nodemon] 2.0.15
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node server.js 8080`
Servidor On-LINE escuchando en puerto: 8080
```

FOREVER

```
House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$ forever start server.js 8080 cluster
warn: --minUptime not set. Defaulting to: 1000ms
warn: --spinSleepTime not set. Your script will exit if it does not stay up for at least 1000ms
info: Forever processing file: server.js
(node:5324) Warning: Accessing non-existent property 'padLevels' of module exports inside circular dependency
(Use 'node --trace-warnings ...' to show where the warning was created)
(node:5324) Warning: Accessing non-existent property 'padLevels' of module exports inside circular dependency

House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$ forever list
(node:4616) Warning: Accessing non-existent property 'padLevels' of module exports inside circular dependency
(Use 'node --trace-warnings ...' to show where the warning was created)
(node:4616) Warning: Accessing non-existent property 'padLevels' of module exports inside circular dependency
info: Forever processes running
data:      uid command script forever pid id logfile
uptime
data: [0] qsCo "C:\Program Files\nodejs\node.exe" C:\Programming\CoderHouse\Backend\src\server.js 8080 cluster 13076 13128 C:\Users\House\.forever\qsCo.log
0:0:29.75

House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$ forever stopall
(node:11804) Warning: Accessing non-existent property 'padLevels' of module exports inside circular dependency
(Use 'node --trace-warnings ...' to show where the warning was created)
(node:11804) Warning: Accessing non-existent property 'padLevels' of module exports inside circular dependency
info: Forever stopped processes:
data:      uid command script forever pid id logfile
uptime
data: [0] qsCo "C:\Program Files\nodejs\node.exe" C:\Programming\CoderHouse\Backend\src\server.js 8080 cluster 13076 13128 C:\Users\House\.forever\qsCo.log
0:0:2:0.043000000000006366

House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$
```

PM2 - FORK

```
House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$ pm2 list
```

id	name	namespace	version	mode	pid	uptime	U	status	cpu	mem	user	watching
0	server	default	1.0.0	fork	10616	43s	0	online	0%	70.4mb	House	disabled

PM2 FORK watching

id	name	namespace	version	mode	pid	uptime	U	status	cpu	mem	user	watching
0	server	default	1.0.0	fork	3556	20s	0	online	0%	70.2mb	House	enabled

```
House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$
```

PM2 - CLUSTER

```
House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$ pm2 start server.js -i max
[PM2] Starting C:\Programming\CoderHouse\Backend\src\server.js in cluster_mode (0 instance)
[PM2] Done.
```

id	name	namespace	version	mode	pid	uptime	U	status	cpu	mem	user	watching
0	server	default	1.0.0	cluster	2748	3s	0	online	0%	32.3mb	House	disabled
1	server	default	1.0.0	cluster	11324	3s	0	online	0%	32.5mb	House	disabled
2	server	default	1.0.0	cluster	5668	3s	0	online	0%	32.2mb	House	disabled
3	server	default	1.0.0	cluster	7704	2s	0	online	0%	32.3mb	House	disabled

```
House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$
```


PM2 CLUSTER watching

```
House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$ pm2 start server.js --watch -i max
[PM2] Starting C:\Programming\CoderHouse\Backend\src\server.js in cluster_mode (0 instance)
[PM2] Done.
```

id	name	namespace	version	mode	pid	uptime	U	status	cpu	mem	user	watching
0	server	default	1.0.0	cluster	12756	3s	0	online	0%	32.3mb	House	enabled
1	server	default	1.0.0	cluster	7336	2s	0	online	0%	32.6mb	House	enabled
2	server	default	1.0.0	cluster	14480	2s	0	online	0%	32.2mb	House	enabled
3	server	default	1.0.0	cluster	14620	2s	0	online	9.4%	32.6mb	House	enabled

```
House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$
```

nginx confg

C: > nginx-1.23.1 > conf >  nginx.conf

```
1  http {
2      include      mime.types;
3      default_type  application/octet-stream;
4
5
6      upstream node_app_cluster_nginx{
7          server 127.0.0.1:8082;
8          server 127.0.0.1:8083;
9          server 127.0.0.1:8084;
10         server 127.0.0.1:8085;
11     }
12
13     upstream node_app{
14         server 127.0.0.1:8080;
15     }
16
17     server {
18         listen      80;
19         server_name  localhost;
20
21
22         location /api/randoms {
23             proxy_pass https://node_app_cluster_nginx;
24         }
25
26         location /api/ {
27             proxy_pass https://node_app;
28         }
29     }
30 }
```

cluster de servidores gestionado desde nginx.

```
House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$ pm2 start server.js && pm2 start server2.js && pm2 start server2-1.js && pm2 start server2-2.js && pm2 start server2-3.js
[PM2] Spawning PM2 daemon with pm2_home=C:\Users\House\.pm2
[PM2] PM2 Successfully daemonized
[PM2] Starting C:\Programming\CoderHouse\Backend\src\server.js in fork_mode (1 instance)
[PM2] Done.
```

id	name	namespace	version	mode	pid	uptime	U	status	cpu	mem	user	watching
0	server	default	1.0.0	fork	12844	1s	0	online	0%	36.1mb	House	disabled

```
[PM2] Starting C:\Programming\CoderHouse\Backend\src\server2.js in fork_mode (1 instance)
[PM2] Done.
```

id	name	namespace	version	mode	pid	uptime	U	status	cpu	mem	user	watching
0	server	default	1.0.0	fork	12844	4s	0	online	0%	97.4mb	House	disabled
1	server2	default	1.0.0	fork	12328	1s	0	online	0%	36.3mb	House	disabled

```
[PM2] Starting C:\Programming\CoderHouse\Backend\src\server2-1.js in fork_mode (1 instance)
[PM2] Done.
```

id	name	namespace	version	mode	pid	uptime	U	status	cpu	mem	user	watching
0	server	default	1.0.0	fork	12844	7s	0	online	0%	95.6mb	House	disabled
1	server2	default	1.0.0	fork	12328	3s	0	online	31.2%	98.3mb	House	disabled
2	server2-1	default	1.0.0	fork	14912	1s	0	online	34.4%	37.4mb	House	disabled

```
[PM2] Starting C:\Programming\CoderHouse\Backend\src\server2-2.js in fork_mode (1 instance)
[PM2] Done.
```

id	name	namespace	version	mode	pid	uptime	U	status	cpu	mem	user	watching
0	server	default	1.0.0	fork	12844	9s	0	online	0%	95.6mb	House	disabled
1	server2	default	1.0.0	fork	12328	6s	0	online	0%	96.2mb	House	disabled
2	server2-1	default	1.0.0	fork	14912	4s	0	online	34.4%	99.5mb	House	disabled
3	server2-2	default	1.0.0	fork	14068	1s	0	online	34.3%	38.0mb	House	disabled

```
[PM2] Starting C:\Programming\CoderHouse\Backend\src\server2-3.js in fork_mode (1 instance)
[PM2] Done.
```

id	name	namespace	version	mode	pid	uptime	U	status	cpu	mem	user	watching
0	server	default	1.0.0	fork	12844	12s	0	online	1.6%	95.7mb	House	disabled
1	server2	default	1.0.0	fork	12328	9s	0	online	0%	96.2mb	House	disabled
2	server2-1	default	1.0.0	fork	14912	6s	0	online	0%	95.9mb	House	disabled
3	server2-2	default	1.0.0	fork	14068	4s	0	online	29.7%	100.0mb	House	disabled
4	server2-3	default	1.0.0	fork	13364	1s	0	online	46.8%	37.5mb	House	disabled

```
House@DESKTOP-2E80ENC MINGW64 /c/Programming/CoderHouse/Backend/src (Servidor_balance_de_carga)
$
```