Comparación entre servidores web en Android

- Palapa Web Server.

- KWS.

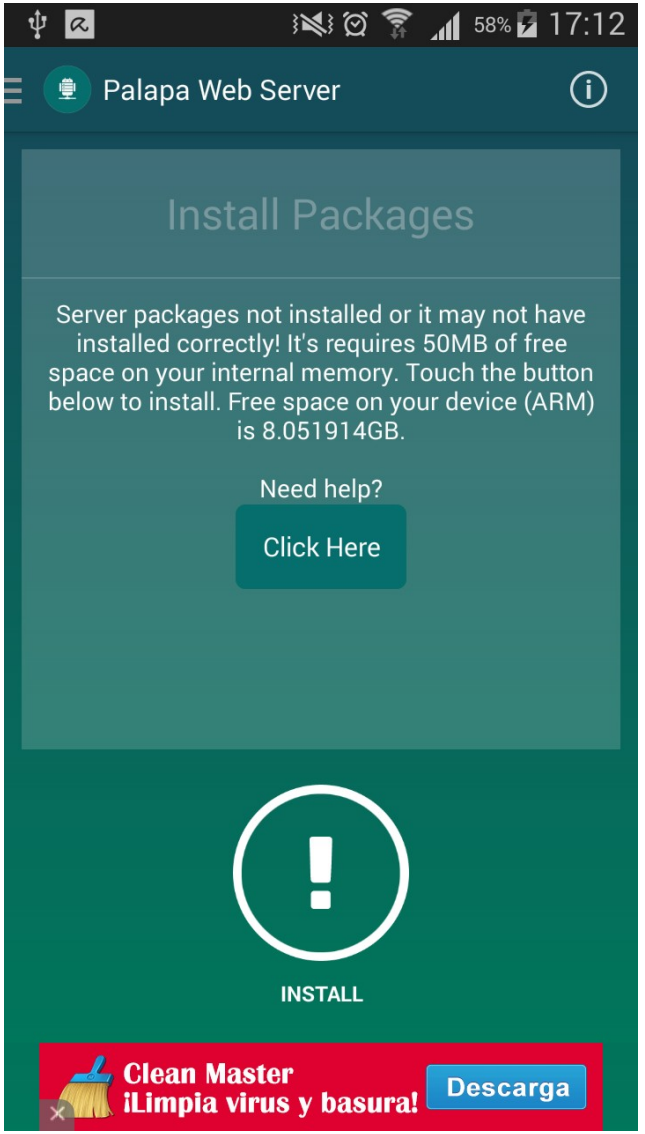
- KSWEB.

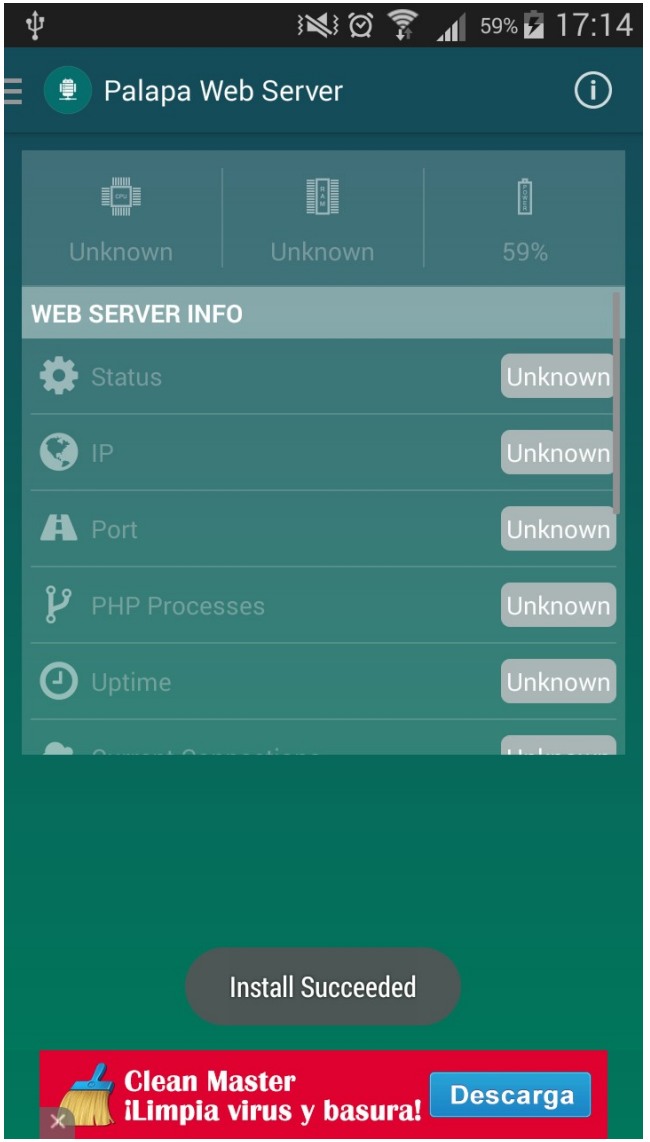
- José Antonio Larrubia García.

- Javier Quero Ruiz.

1. Palapa Web Server

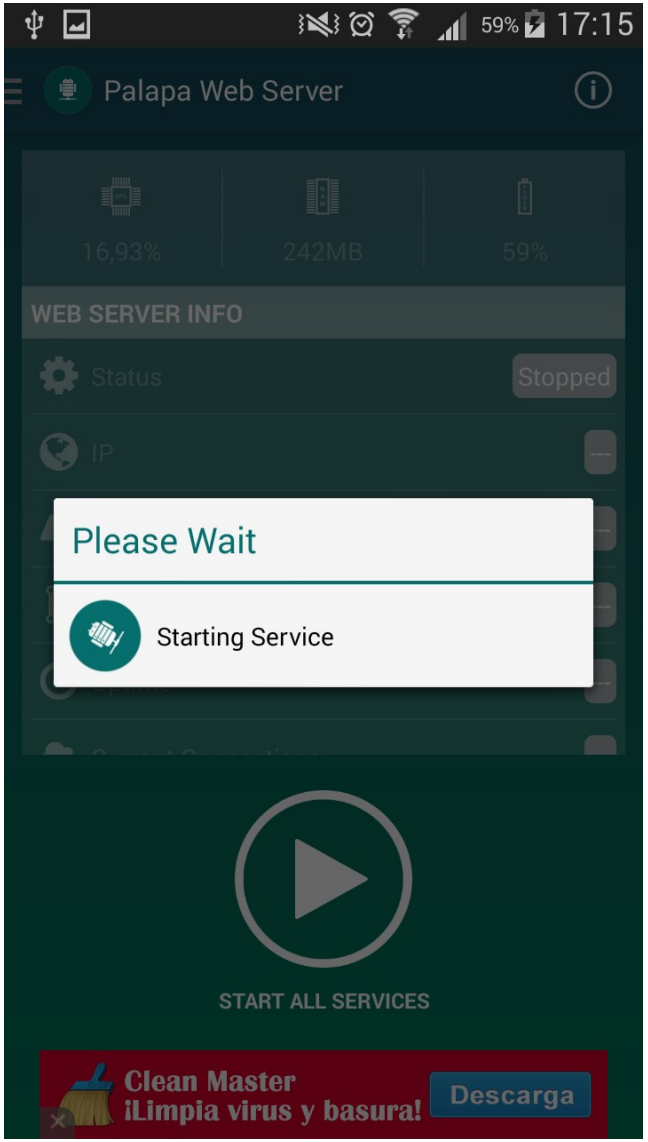
1.1 Instalación

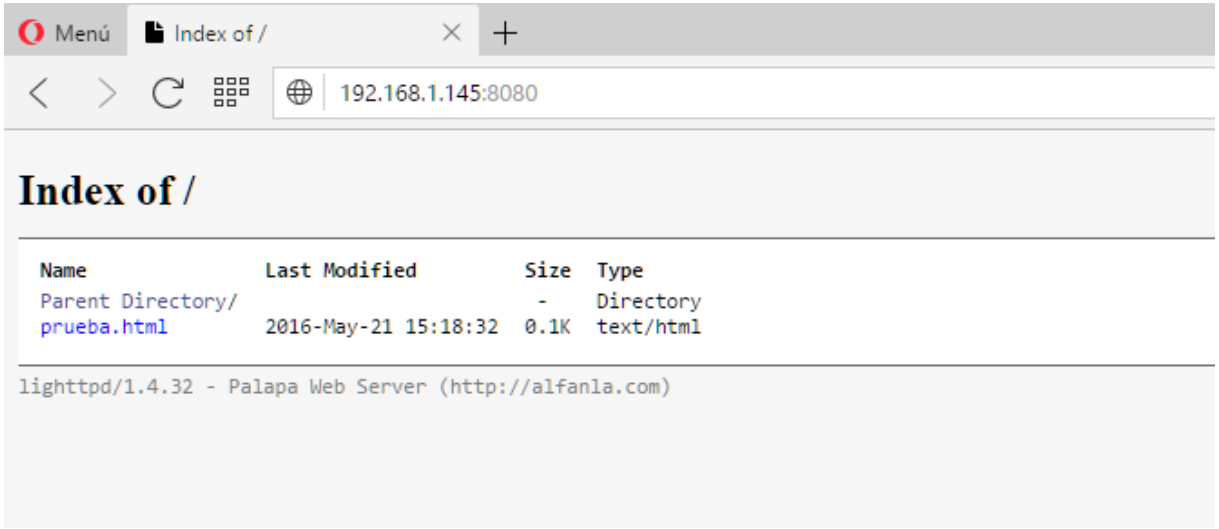


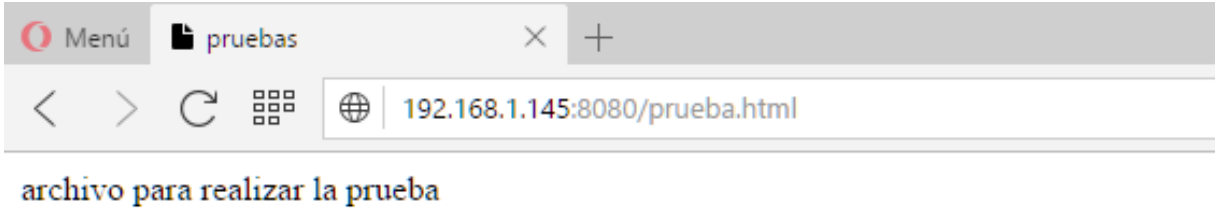


1. Palapa Web Server

1.2 Muestra de funcionamiento



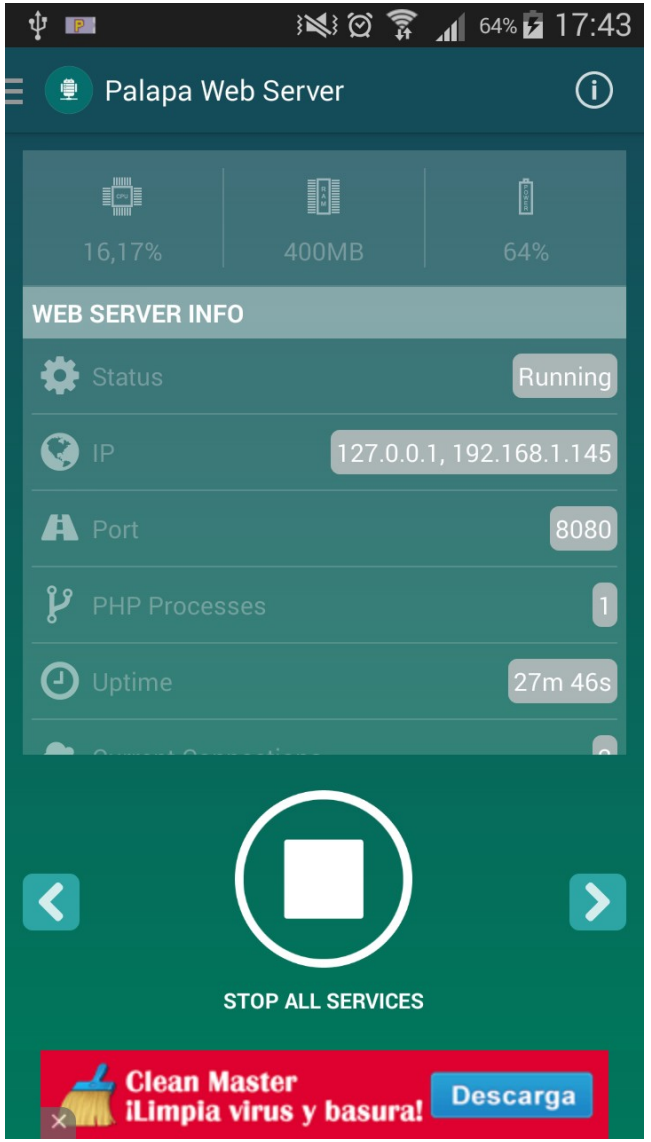


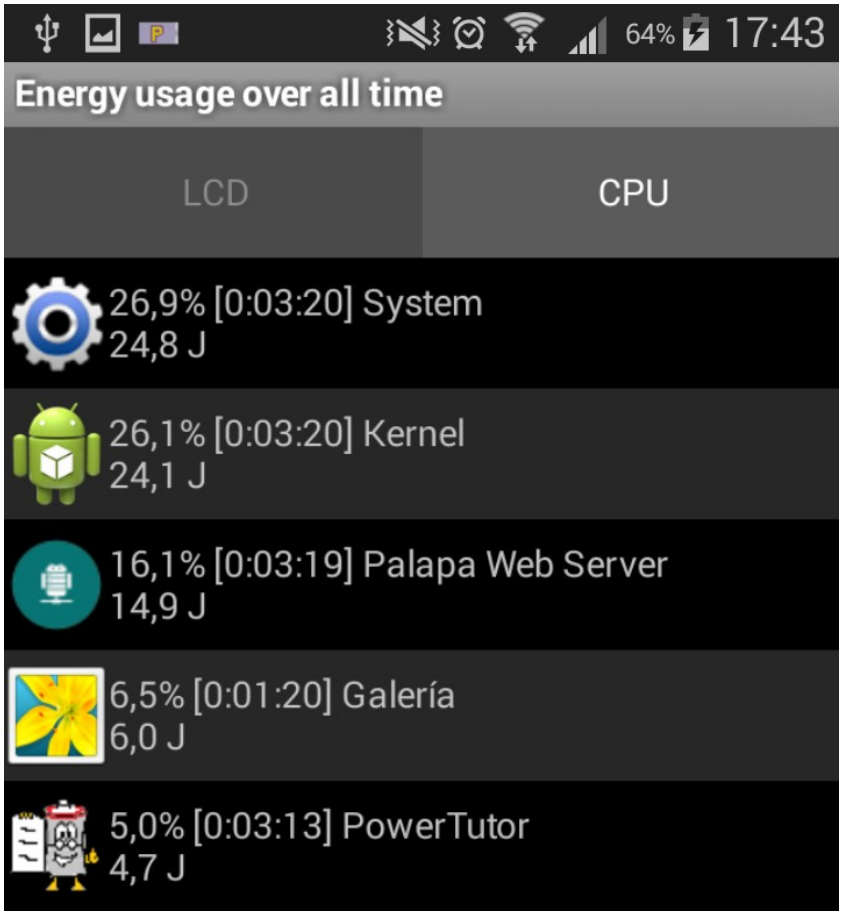



```
<html>
<head>
<title>pruebas</title>
</head>
<body>
archivo para realizar la prueba
</body>
</html>
```

1. Palapa Web Server

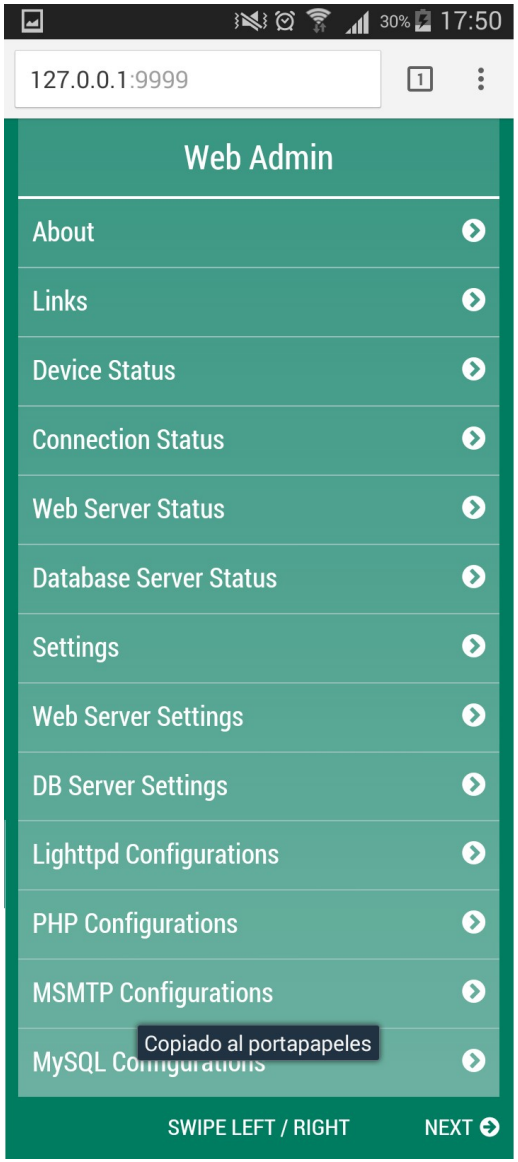
1.3. Servicios y Consumo

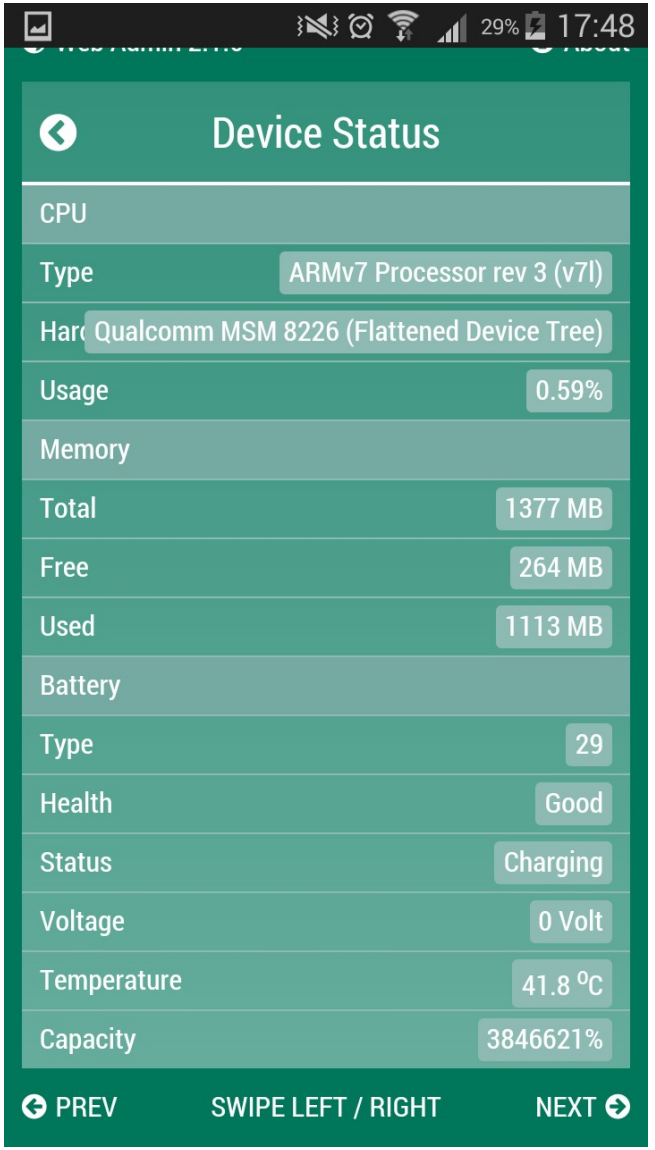




1. Palapa Web Server

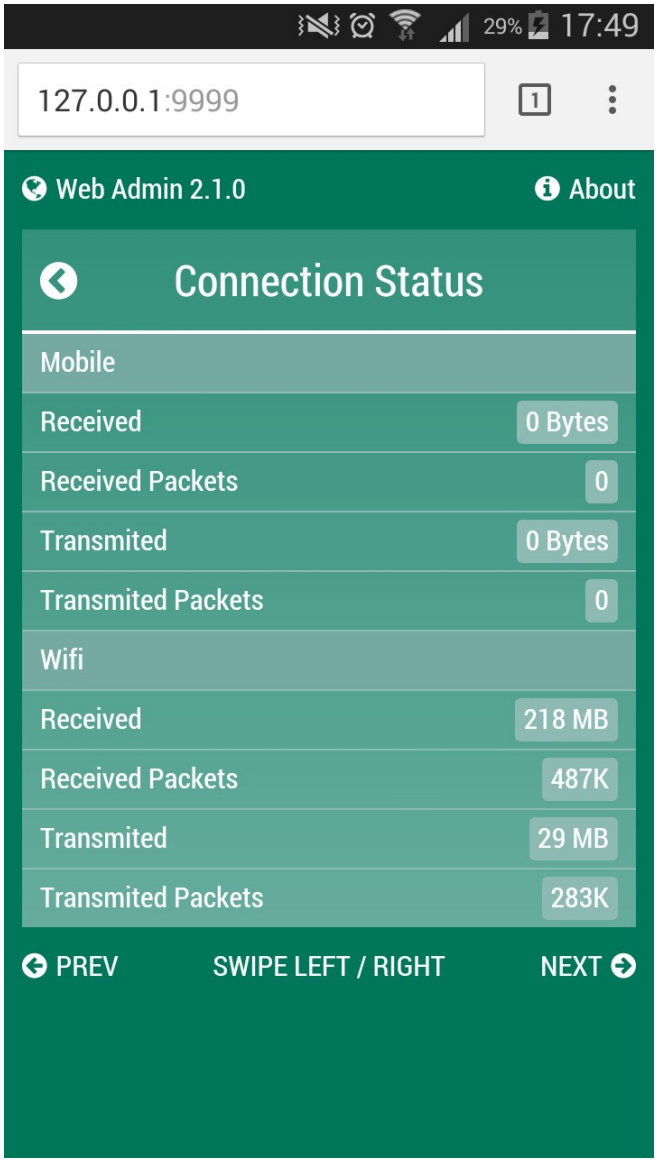
1.4 Servicios del webadmin

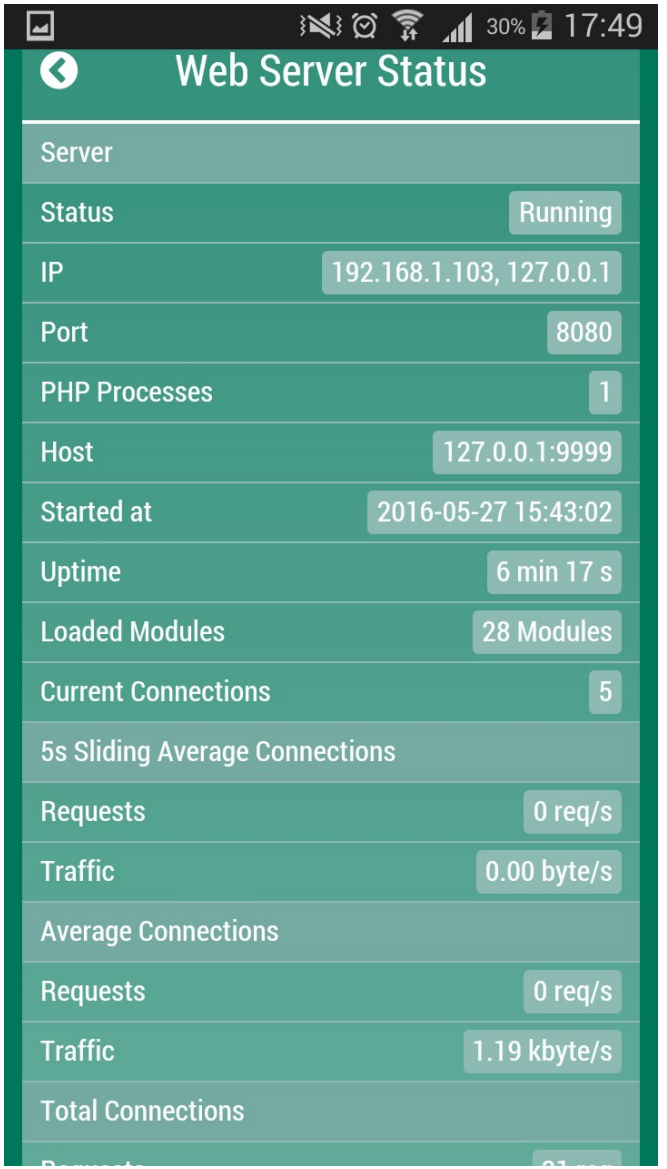




1. Palapa Web Server

1.4 Servicios del webadmin

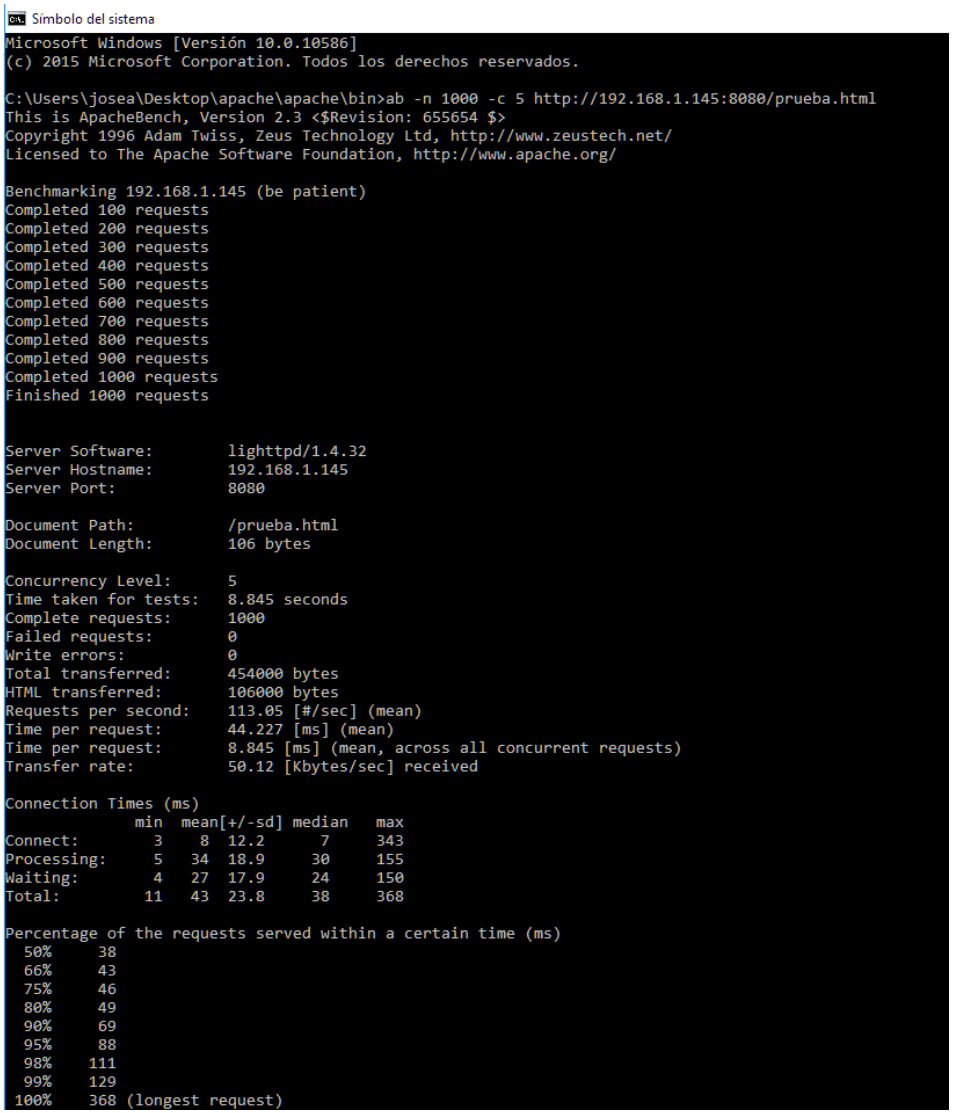




1. Palapa Web Server

1.5 Benchmark

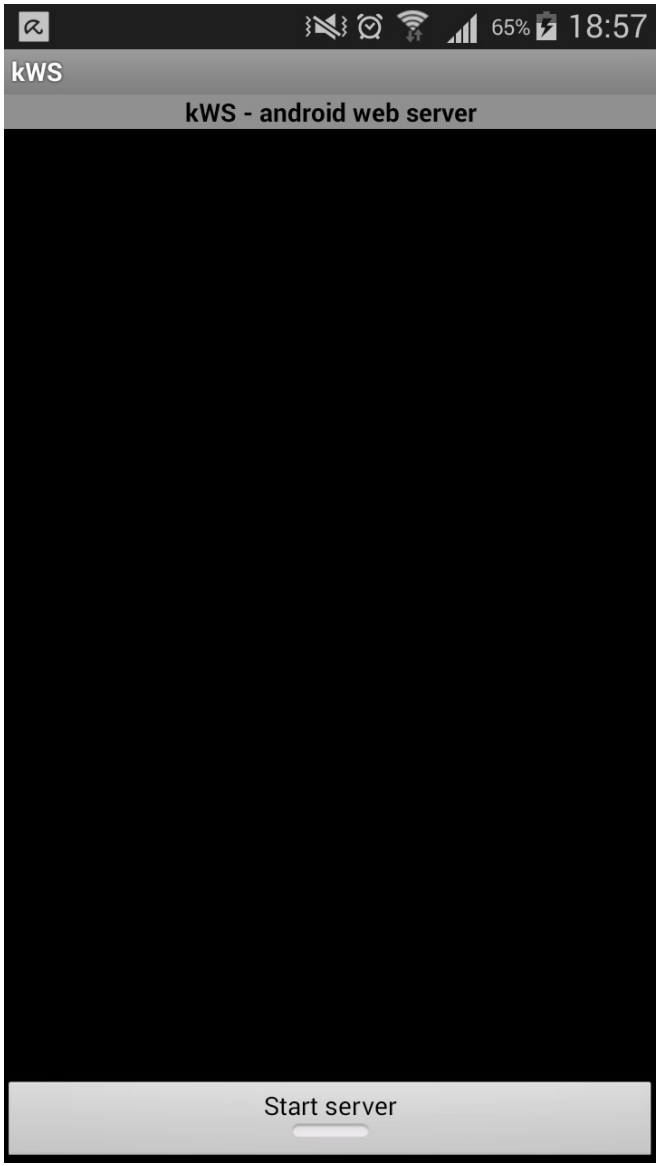
- 5 ejecuciones de Apache Benchmark.



```
Símbolo del sistema
Microsoft Windows [Versión 10.0.10586]
(c) 2015 Microsoft Corporation. Todos los derechos reservados.

C:\Users\josea\Desktop\apache\apache\bin>ab -n 1000 -c 5 http://192.168.1.145:8080/prueba.html
This is ApacheBench, Version 2.3 <$Revision: 655654 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 192.168.1.145 (be patient)
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        lighttpd/1.4.32
Server Hostname:        192.168.1.145
Server Port:            8080

Document Path:          /prueba.html
Document Length:        106 bytes

Concurrency Level:      5
Time taken for tests:   8.845 seconds
Complete requests:      1000
Failed requests:        0
Write errors:           0
Total transferred:      454000 bytes
HTML transferred:       106000 bytes
Requests per second:    113.05 [#/sec] (mean)
Time per request:       44.227 [ms] (mean)
Time per request:       8.845 [ms] (mean, across all concurrent requests)
Transfer rate:          50.12 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        3    8  12.2      7     343
Processing:     5   34  18.9     30     155
Waiting:        4   27  17.9     24     150
Total:         11   43  23.8     38     368

Percentage of the requests served within a certain time (ms)
  50%     38
  66%     43
  75%     46
  80%     49
  90%     69
  95%     88
  98%    111
  99%    129
 100%    368 (longest request)
```

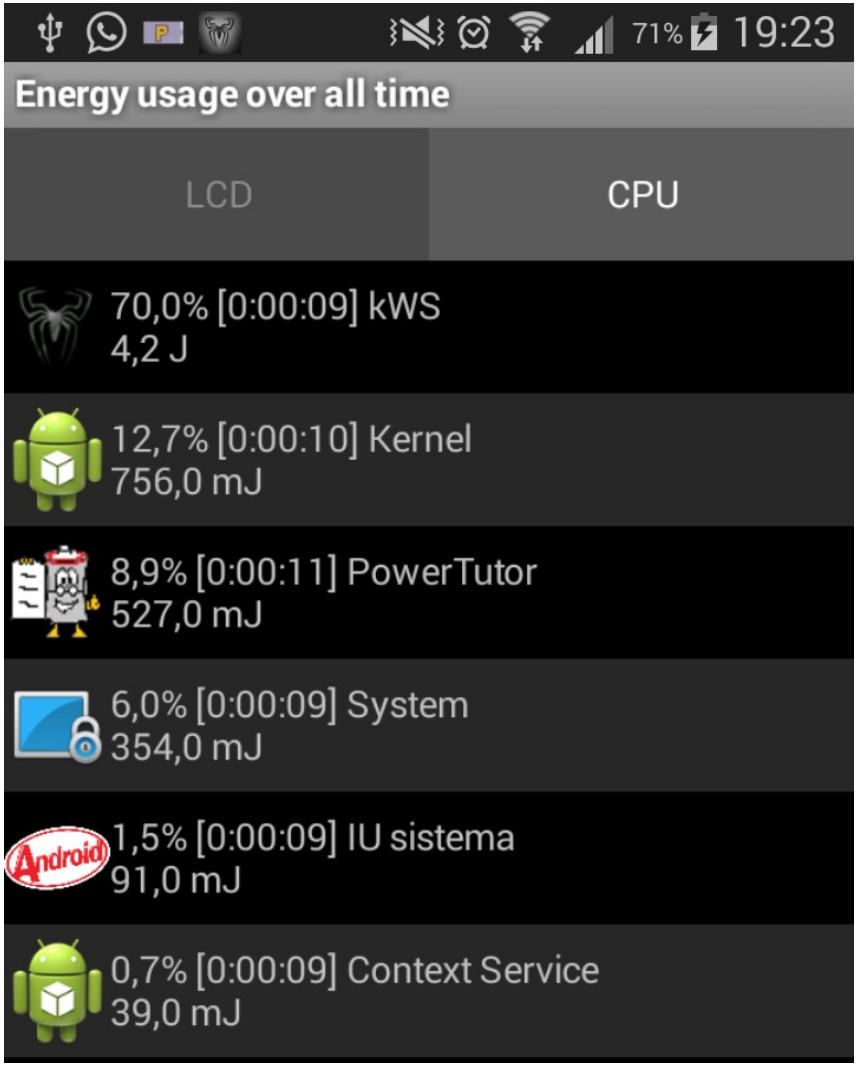
2. Kws

2.1 Primera ejecución



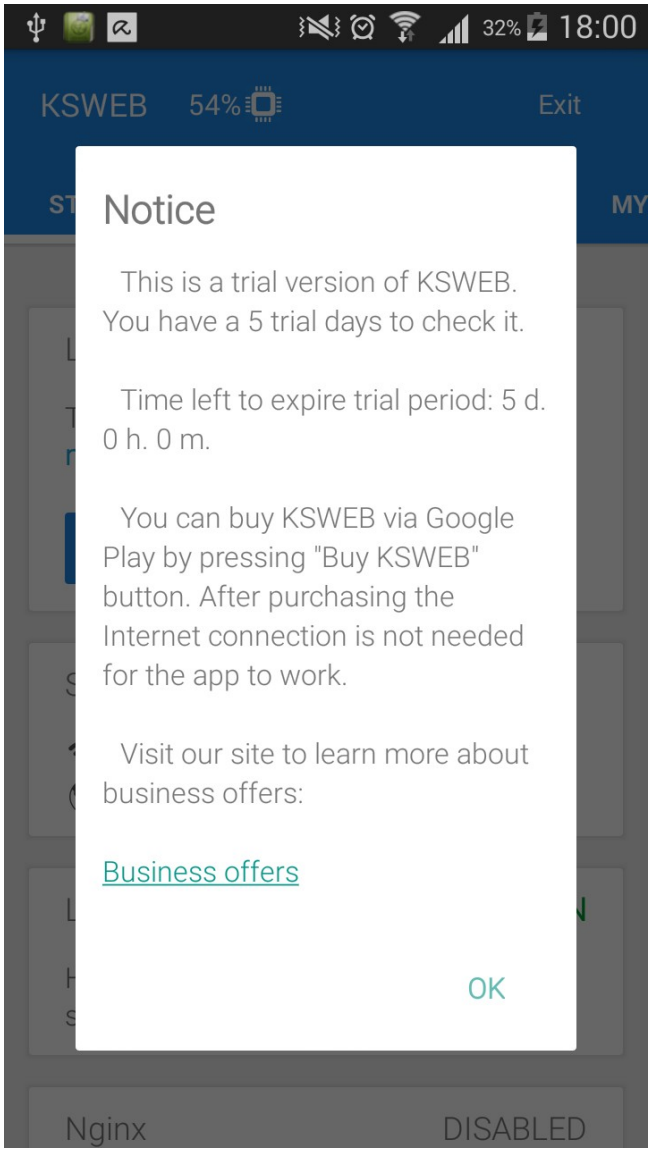
2. Kws

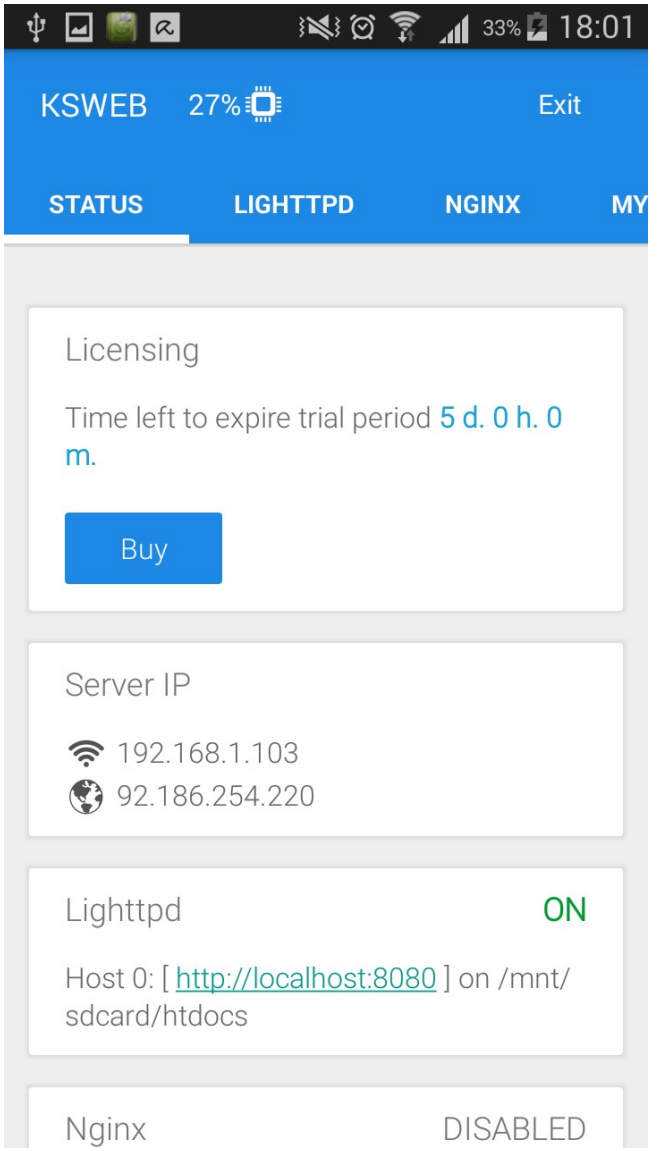
2.2 Consumo



3. KSWEB

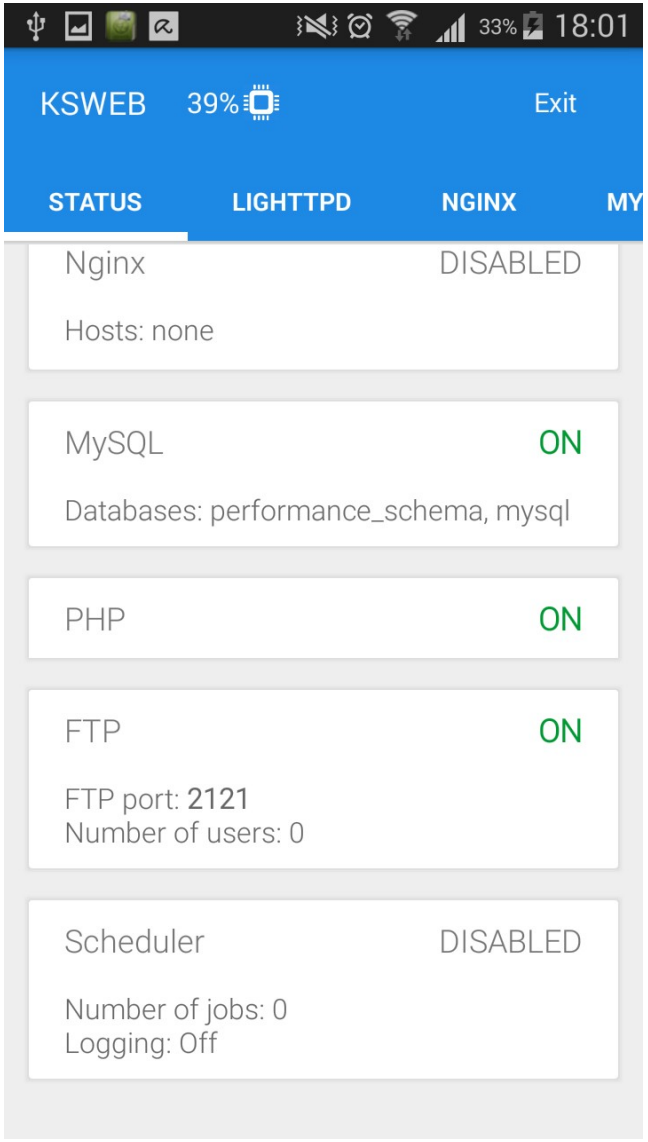
3.1 Primera ejecución

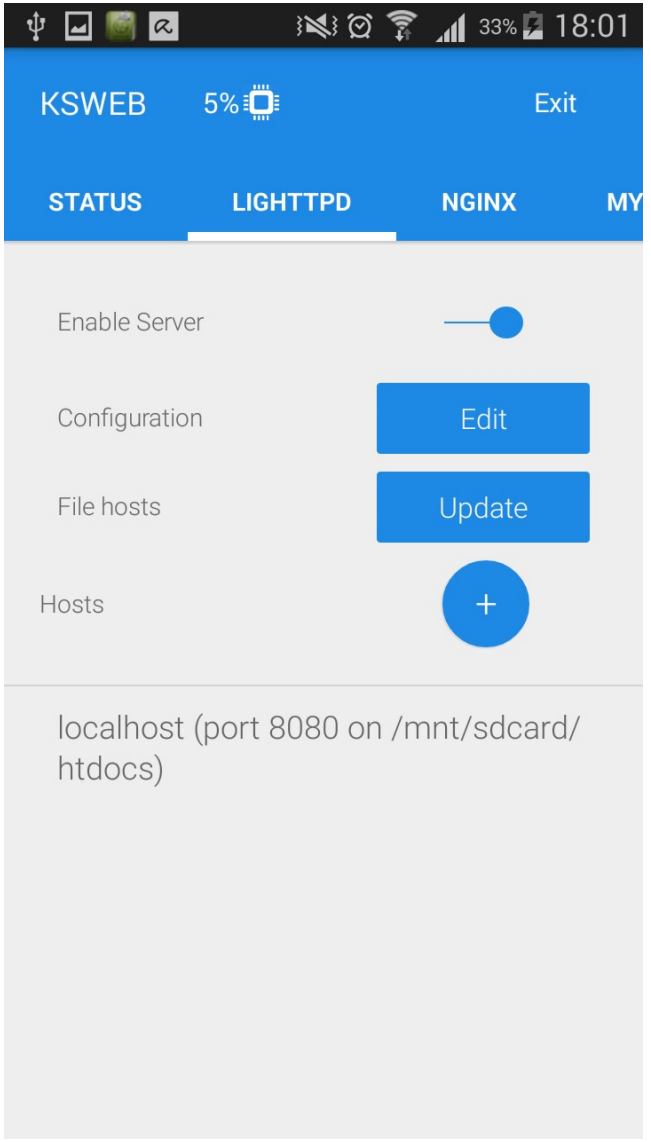




3. KSWEB

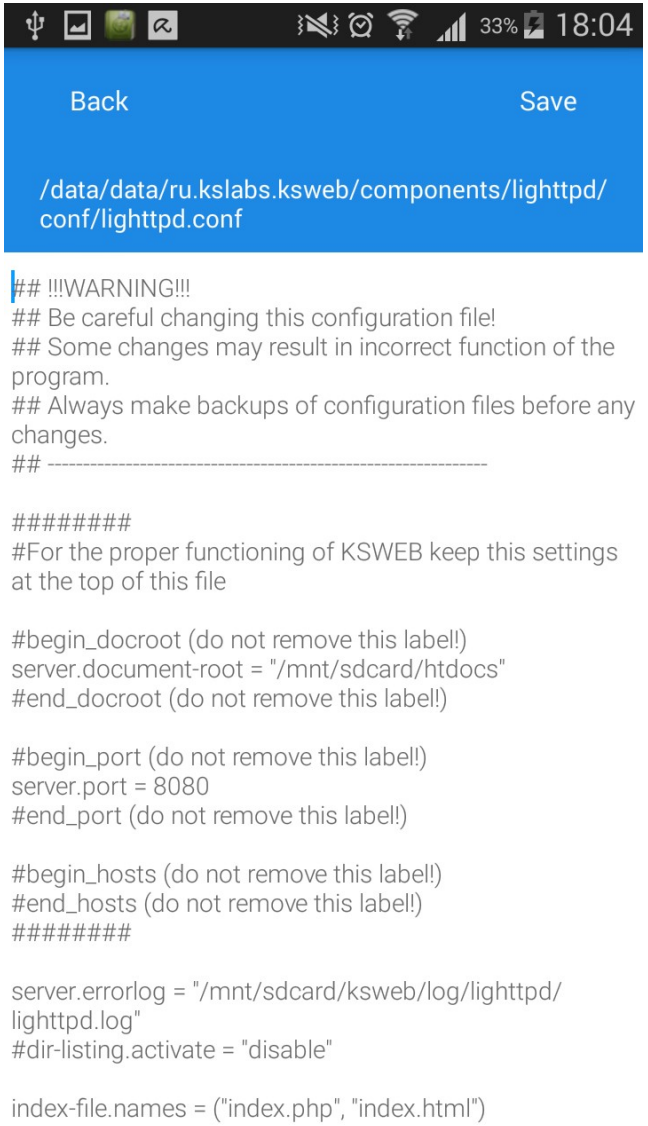
3.2 Muestra de servicios

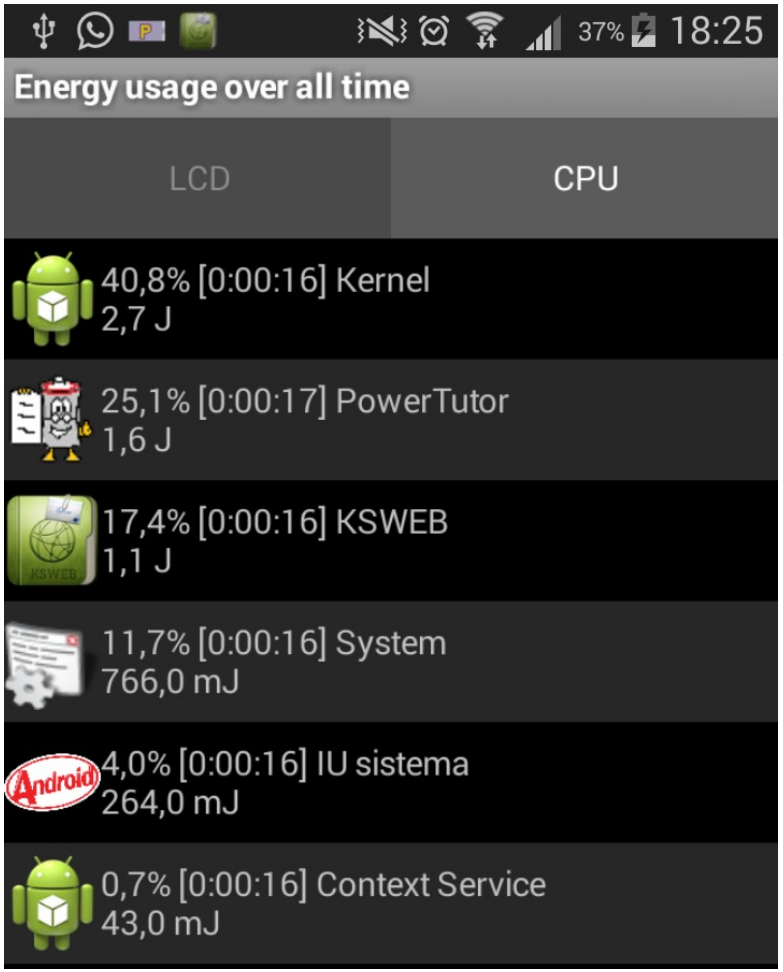




3. KSWEB

3.3 Configuración y consumo





4. Comparaciones

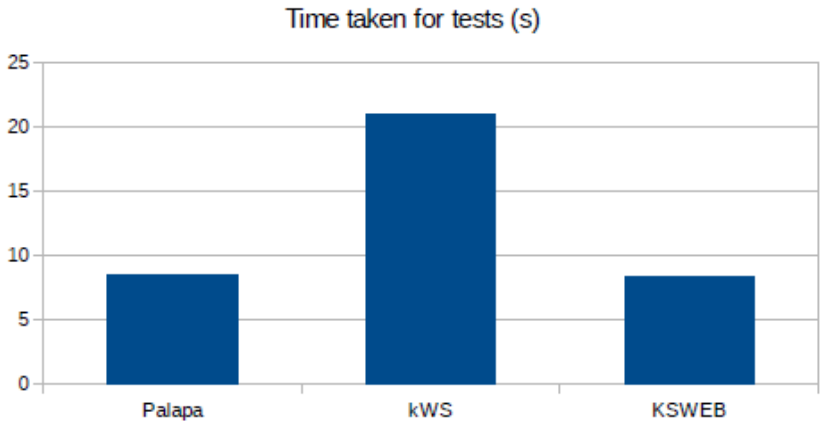
Palapa	Time taken per tests (s)	Failed requests	Requests per second
1	8.845	0	113.05
2	8.147	0	122.74
3	8.655	0	115.54
4	8.571	0	116.67
5	8.197	0	122
Media	**8.483**	**0**	**188**

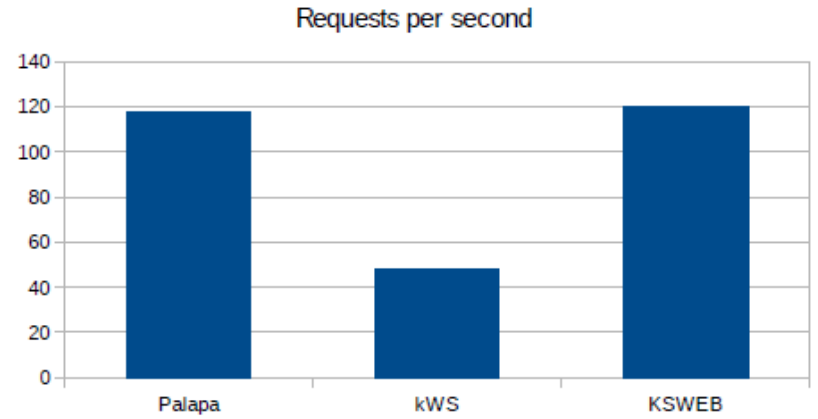
kWS	Time taken per tests (s)	Failed requests	Requests per second
1	20.309	0	49.24
2	20.391	0	49.04
3	19.803	0	50.5
4	21.251	0	47.06
5	23.193	0	43.12
Media	**20.9894**	**0**	**47.792**

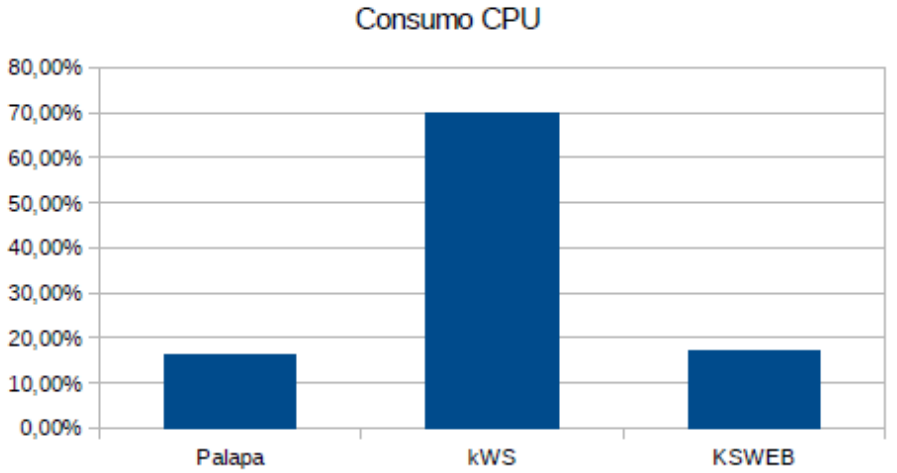
KSWEB	Time taken per tests (s)	Failed requests	Requests per second
1	7.628	0	131.1
2	7.779	0	128.56
3	8.989	0	111.24
4	9.3	0	107.52
5	8.286	0	120.73
Media	**8.3958**	**0**	**119.83**

MEDIAS	Time taken per tests (s)	Failed requests	Requests per second	Consumo CPU
Palapa	8,483	0	118	16,10%
kWS	20,9894	0	47,792	70,00%
KSWEB	8,3958	0	119,83	17,00%

4. Comparaciones







MEDIAS	Time taken per tests (s)	Failed requests	Requests per second	Consumo CPU
Palapa	8,483	0	118	16,10%
kWS	20,9894	0	47,792	70,00%
KSWEB	8,3958	0	119,83	17,00%

5. Conclusiones

- Hay gran variedad de aplicaciones web para android en google play.
- Palapa y kWS son gratuitas, KSWEB de pago.
- Basándonos en el consumo de CPU la mejor es Palapa.
- Si nos basamos en en las pruebas de ab la mejor es KSWEB.
- El rendimiento de kWS queda muy por detrás de las otras dos y comparándolo con Palapa deja mucho que desear.