v1.17_ proxy WIFI

-
  -
  -
  - nginx
  - Yandex.Tank
  -
  -
-
  -
  -
  - MAC HotWiFi

Wi-Fi (-).

, (10-15) WEP-2ac "".

Wi-Fi , - HTTP POST. - JSON.

1.

http://localhost/proxy https://api.hottwf.com/probes/eltex/parser

( ):

1. .T http://localhost/proxy
2. nginx HTTP (port=80) https (port=443) : https://api.hottwf.com/probes/eltex/parser
3. JSON '200 OK', (WEB- : https://en.wikipedia.org/wiki/List_of_HTTP_status_codes) proxy (nginx);
4. nginx .;
5. . , ;

Linux Ubuntu 16.04 x64 LTS.

nginx, docker.

console

```
$ sudo apt install nginx
$ sudo apt install docker
```

nginx

nginx, . : "1.10.3-0ubuntu0.16.04.4".

default.conf

```
# Default server configuration
#
server {
        listen 80 default_server;
        listen [::]:80 default_server;

        root /var/www/avp;
        index index.html index.htm;
        allow all;

        proxy_read_timeout 500;
        proxy_connect_timeout 500;
        proxy_ssl_verify off;

        # To allow POST on static pages
        error_page  405     =200 $uri;

        location /proxy/ {
            proxy_pass https://api.hottwf.com/probes/eltex/parser;
        }
    }
```

Yandex.Tank

load.yaml

```
phantom:
  address: 127.0.0.1:80 # [Target's address]:[target's port]
#  uris:   # setup in ammo
#    - /   # setup in ammo
  load_profile:
    load_type: rps # schedule load by defining requests per second
    schedule: line(1, 2, 10s) # starting from 1rps growing linearly to 10rps during 10 minutes
  ammofile: /var/loadtest/working-ammo
  ammo_type: uripost
console:
  enabled: true # enable console output
telegraf:
  enabled: false # let's disable telegraf monitoring for the first time
```

"" (ammo)

working-ammo

```
[Host: localhost]
[Connection: close]
[User-Agent: Tank]
[Content-Length: 417]
[Content-Type: application/json]

417 /proxy/
{"ap_id": "00-04-56-F8-33-30","version": "1.0","ap_name":"rad_JN3PMROF","probe_requests":[{"dbi": -25,"
packet_count": 12,"mac": "C0:B6:58:14:22:33","ch": 1,"rssi_min": -33,"ssid": "WIFI-guest","timestamp"
: "1571391498","type_bitmask": 1,"bss_mac": ""},{"dbi": -44,"packet_count": 12,"mac": "C0:B6:58:14:22:34","ch":
6,"rssi_min": -50,"ssid": "WIFI-guest","timestamp": "1571392599","type_bitmask": 1,"bss_mac"
: ""}]}
```

: load.yaml - , working-ammo . .

ammo . .

'payload' () HTTP POST. :

1. , (417);
2. , (/proxy/ . : 'http://localhost:80/proxy/');
3. JSON . , ;

:

console.test

```
 docker run -v $(pwd):/var/loadtest -v $SSH_AUTH_SOCK:/ssh-agent -e SSH_AUTH_SOCK=/ssh-agent --net host -it direvius/yandex-tank
```

, ( ) : 'load.yaml' 'working-ammo', ( ), : "`-c custom-config-name.yaml`"

.

- Wireshark .

schedule: line(1, 2, 10s)

schedule: line(1, 10000, 600s)

1 10 . (rps) 100 .

Yandex.Tank:

https://yandextank.readthedocs.io/en/latest/core_and_modules.html#id1

```
. ============================================================- 100.0%
 Data delay: 4s, RPS:
2                                                                                .
Duration: 0:00:10                                  ETA: 0:00:00

.
 Percentiles (all/last 1m/last), ms:  . HTTP
codes:                                                                  . Hosts: lexx =>
127.0.01:80
 100.0% <  8.4  8.4  0.6              . 8 +2  100.00% : 404 Not
Found                                                          .  Ammo: working-ammo
  99.5% <  8.4  8.4  0.6
.                                                                              . Count: 15
  99.0% <  8.4  8.4  0.6              . Net
codes:                                                                  .  Load: line(1, 2,
10s)
  95.0% <  8.4  8.4  0.6              . 8 +2  100.00% :  0
Success                                                              .
  90.0% <  8.4  8.4  0.6
.                                                                              . Active
instances: 1
  85.0% <  0.8  0.8  0.6              . Average Sizes (all/last),
bytes:                                                         . Planned requests: 2.0 for 0:00:00
  80.0% <  0.8  0.8  0.6              .  Request: 549.0 /
549.0                                                          . Actual responses: 2
  75.0% <  0.8  0.8  0.6              . Response: 451.0 /
451.0                                                          .         Accuracy: 0.00%
  70.0% <  0.8  0.8  0.6
.                                                                              .
Time lag: 0:00:00
  60.0% <  0.7  0.7  0.6              . Average Times (all/last),
ms:                                                            .
  50.0% <  0.7  0.7  0.6              . Overall: 1.61 /
0.59                                                             _____  .
  40.0% <  0.7  0.7  0.6              . Connect: 0.49 /
0.15                                                             _____  .
  30.0% <  0.6  0.6  0.6              .    Send: 0.06 /
0.07                                                               .
  20.0% <  0.6  0.6  0.6              . Latency: 0.97 /
0.25                                                             _____  .
  10.0% <  0.3  0.3  0.6              . Receive: 0.10 /
0.11                                                               .

.

.
 Cumulative Cases
Info:
.
     name count       % last net_e http_e avg ms last
ms                                                                        .
 OVERALL:     8 100.00%   +2     0      8    1.2
0.5                                                                  .
```

., Tank , "404" 100% . = 1.2ms.

```
. ==========================================================\ 100.0%
 Data delay: 4s, RPS:
1                                                                                .
Duration: 0:00:10                                  ETA: 0:00:00

.
 Percentiles (all/last 1m/last), ms:  . HTTP
codes:                                                                  . Hosts: lexx =>
127.0.01:80
 100.0% <  223.0  223.0  129.2        . 8 +1  100.00% : 200
OK                                                                .  Ammo: working-ammo
  99.5% <  223.0  223.0  129.2
.                                                                                . Count: 15
  99.0% <  223.0  223.0  129.2        . Net
codes:                                                                  .  Load: line(1, 2,
10s)
  95.0% <  223.0  223.0  129.2        . 8 +1  100.00% :  0
Success                                                            .
  90.0% <  223.0  223.0  129.2
.                                                                                . Active
instances: 1
  85.0% <  135.0  135.0  129.2        . Average Sizes (all/last),
bytes:                                                          . Planned requests: 2.0 for 0:00:00
  80.0% <  135.0  135.0  129.2        .  Request: 549.0 /
549.0                                                             . Actual responses: 1
  75.0% <  132.0  132.0  129.2        . Response: 415.0 /
415.0                                                             .         Accuracy: 0.00%
  70.0% <  132.0  132.0  129.2
.                                                                                .
Time lag: 0:00:00
  60.0% <  130.0  130.0  129.2        . Average Times (all/last),
ms:                                                             .
  50.0% <  129.0  129.0  129.2        . Overall: 139.19 /
129.16                                                            .
  40.0% <  129.0  129.0  129.2        . Connect:   0.75 /
0.17                                                         _____  .
  30.0% <  124.0  124.0  129.2        .    Send:   0.05 /
0.04                                                            .
  20.0% <  123.0  123.0  129.2        . Latency: 138.27 /
128.86                                                            .
  10.0% <  122.0  122.0  129.2        . Receive:   0.12 /
0.08                                                            .

.

.
 Cumulative Cases
Info:
.
     name count       % last net_e http_e avg ms last
ms                                                                        .
 OVERALL:     8 100.00%   +1     0      0  139.0
129.0                                                                  .
```

10 .

15 .

100% (200).

129 ms.

MAC HotWiFi

, - HotWiFi, .

:

http://lk-pro.wifi.rt.ru/radar

(, Email), , -, payload . , - ( ) , . .. , 15 . 2 , 30 -.