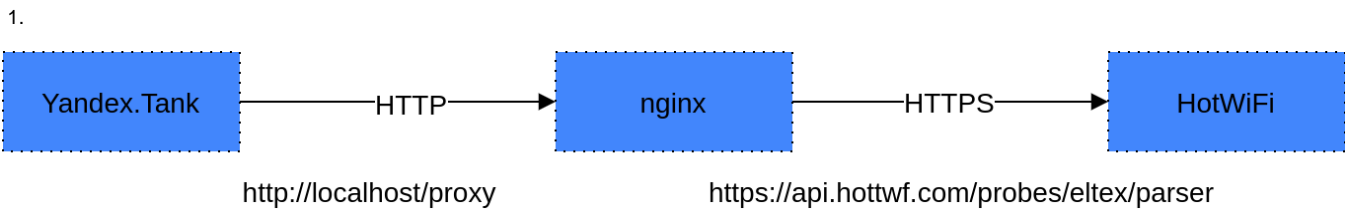


v1.16_ proxy WIFI

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

Wi-Fi (-).
, (10-15) WEP-2ac "".
Wi-Fi, - HTTP POST. - JSON.



- ():
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 -.