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Working with abuse letters. How to find a subscriber after NAT



The following components are required to work with QoE statistics: [QoE Stor Module](#) и [SSG DPI control interface](#).

Description for configuring NAT in QoE: [NAT Flow Configuration](#)

This tutorial is how to find the specific subscriber who is reported abuse.

The abuse email usually contains a global address from a NAT pool. We need to understand which of the subscribers went to the resource where the virus activity was detected at a known time behind this NAT-pool.

We need to perform **two steps** — find the necessary information in the abuse email and use it to identify the subscriber in the GUI of the Stingray.

Step 1. Research the email

1. The address from your NAT pool (source IP).
2. Address of the attacked resource (destination IP)
3. Activity time on the attacked resource (*considering the time zones!*)

• Example 1.

```
From: "EGP Abuse Dept." <abuse-notify@32977.45.199.184.208.45@abuse.espresso-gridpoint.net>
Date: Sun Feb 19 2023 18:37:17 GMT+0000 (Coordinated Universal Time)
To: "" <abuse@cloudinnovation.org>, <tech@cloudinnovation.org>
Subject: [ EGP Cloudblock RBL / 1676831816.32977 ] [ probe/scan/virus/trojan ] 45.199.184.208 (PTR: -) (ALERT: extremely problematic /24, 32-63 abusive hosts)
```

```
***** X-ARF Style Summary *****
Date: 2023-02-19T19:36:56+01:00
Source: 45.199.184.208
Type of Abuse: Portscan/Malware/Intrusion Attempts
Logs: 19:36:48.510541 rule 0/0(match): block in on vmx0: 45.199.184.208.42205 > 91.190.98.8.59891 Flags [S], seq 3517664982, win 0, options [mss 1412], length 0
-----To whom it may concern, 45.199.184.208 is reported to you for performing unwanted activities toward our
```

• Example 2.

```
Below is an overview of recently recorded abusive activity from 45.195.93.8/32

Source IP / Targeted host / Issue processed @ / Log entry (see notes below)
* 45.195.93.8 tpc-022.mach3builders.nl 2023-01-30T15:45:15+01:00 15:45:12.435802 rule 0/0(match): block in on vmx0:
45.195.93.8.40422 > 91.190.98.11.445 Flags [S], seq 2611011070, win 0, options [mss 1412], length 0
* 45.195.93.8 tpc-022.mach3builders.nl 2023-01-30T15:45:14+01:00 15:45:11.870278 rule 0/0(match): block in on vmx0: 45.195.93.8.40422 > 91.190.98.11.445: Flags [S], seq 2611011070, win 0, options
[mss 1412], length 0
```

More can be found useful in the email:

1. Reason of abuse

Date: 2023-02-27T00:53:34+01:00

Source: 45.199.184.192

Type of Abuse: Portscan/Malware/Intrusion Attempts

Logs: 00:53:29.425121 rule 0/0(match): block in on vmx0: 45.199.184.192.65001 > 91.190.98.8.59891: Flags [S], seq 3803861910, win 0, options [mss 1412], length 0

2. History of abuse (if the activity was repeated)

The reported IP address 45.199.184.192 is part of 45.199.184.0/24;
33 of this network's 256 IP addresses (12.89%) were abusive in the last 90 days

Host Last logged attempt (Netherlands time zone)

45.199.184.1 (2022-12-24T20:58:33+01:00)
45.199.184.3 (2023-01-22T18:20:44+01:00)
45.199.184.4 (2023-01-03T16:19:43+01:00)
45.199.184.13 (2022-12-22T06:00:34+01:00)

This can help you understand the scope of the problem and identify similar problems on your network.

Step 2. Looking for subscriber activity in the GUI

The task is to determine from the logs which subscriber behind the NAT-pool (source IP) specified in the letter was accessing the destination IP at that time.

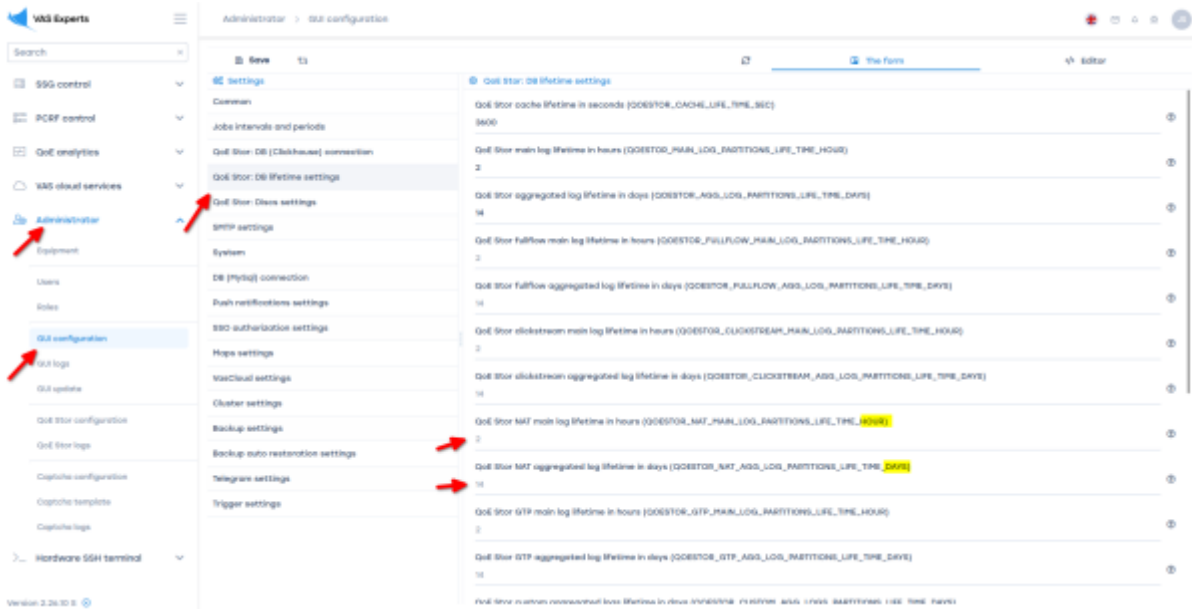
Before you start the search it is worth checking two facts:

1. The NAT pool in question is set to CG-NAT in Stingray.

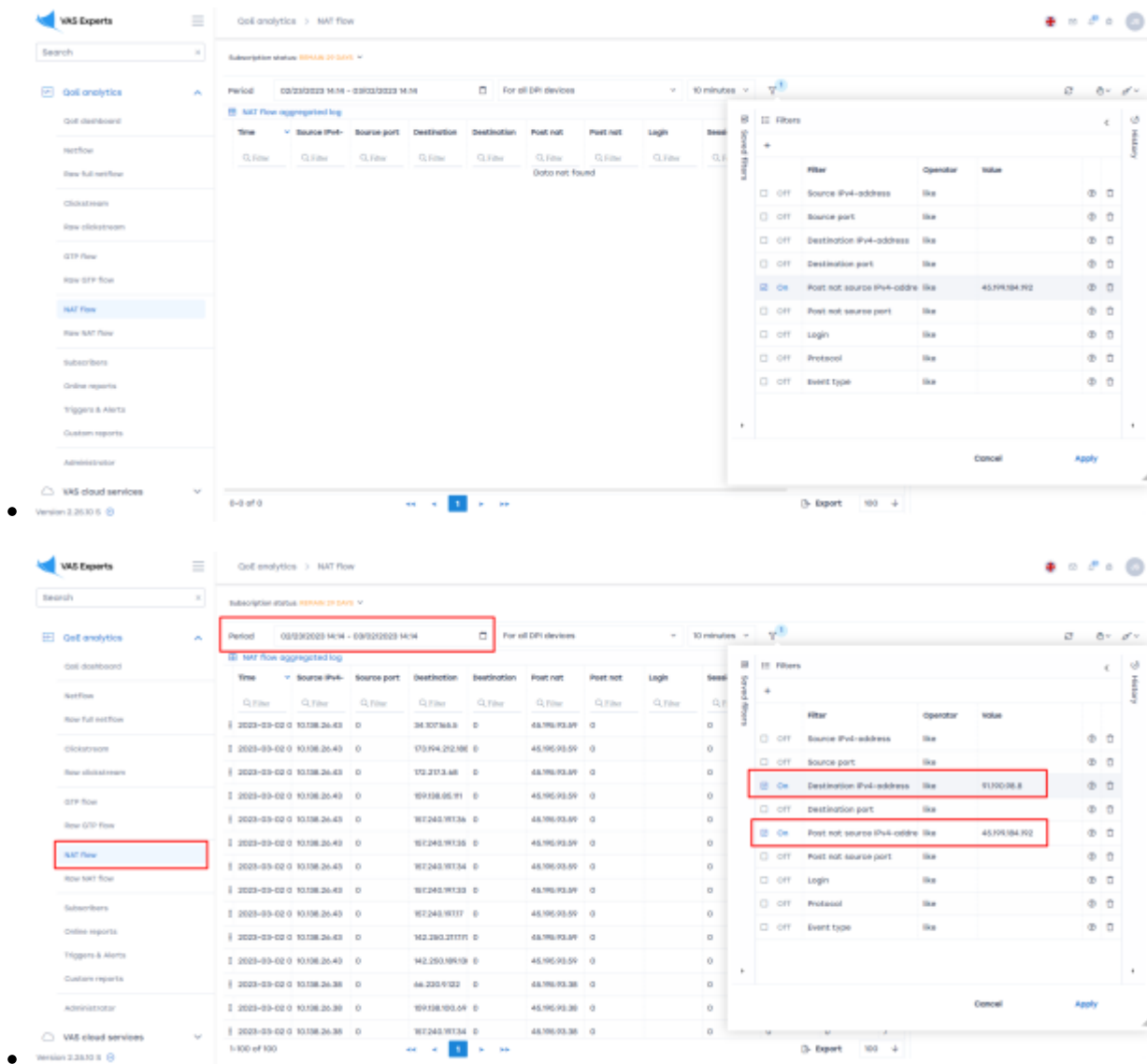
The screenshot shows the VAS Experts GUI. The left sidebar has a 'Services' menu item highlighted. The main panel shows the 'CGNAT profile' configuration. The 'NAT IP pool' field is set to '187.86.164.0/27'. The 'Status' tab in the right sidebar is also visible.

IP	White IP	TCP sessions	UDP sessions
10.2.130.1	187.86.164.9	0	0
10.2.130.129	187.86.164.9	0	0
10.2.130.153	187.86.164.9	0	0
10.2.130.205	187.86.164.9	24	0
10.2.130.213	187.86.164.9	0	0
10.2.130.25	187.86.164.9	28	4
10.2.130.77	187.86.164.9	0	0
10.2.130.85	187.86.164.9	0	0
10.2.131.101	187.86.164.9	0	0
10.2.131.125	187.86.164.9	69	20

2. The NAT log storage time captures the time of activity. View and configure



Then in the GUI you need to open the section NAT flow, select a period, enter the source and destination IP.





Perform the necessary actions with the found subscriber to prevent further abuse.