

Bulletproof Hosting Hunt

By Vasilis Orlof

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It all started with a simple follow up on another Lumma infection. I wanted to find and automate a quick way to get hunting leads for infra that is not hidden behind CDNs but I think I might have found a Bulletproof hosting provider.

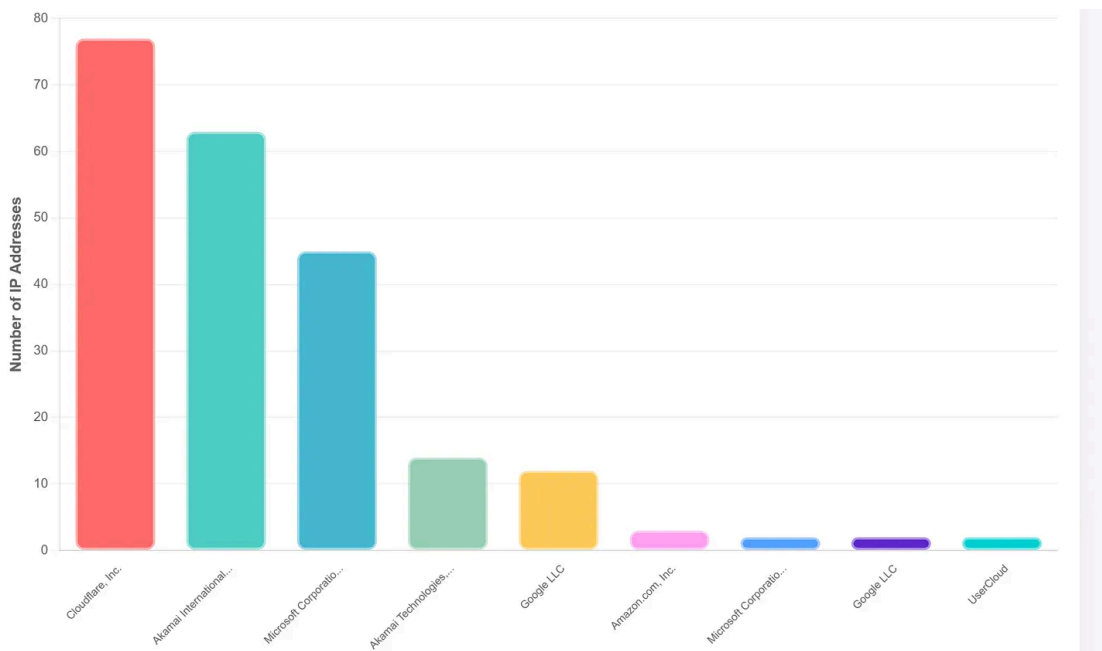


Lumma continues to be in the top 5 malware families [\[1\]](#) [\[2\]](#) , which means high sample availability on malware reporting platforms and a great starting point for a hunt! Starting from the latest Lumma samples, we can expand to additional malicious infrastructure, including phishing, impersonation mining and various malware.

Using abuse.ch API to retrieve samples from the last week (of this writing), returns 100 results between 15-22/7. With the latest hashes in hand we can start our analysis.

```
Summary:  
- Date range: 2025-07-15 to 2025-07-22  
- Total Lumma Stealer samples: 100  
- Samples from last 7 days: 100  
- Hashes saved to file: hashes.txt  
  
Daily breakdown:  
2025-07-22: 8 samples  
2025-07-21: 24 samples  
2025-07-20: 33 samples  
2025-07-19: 21 samples  
2025-07-18: 13 samples  
2025-07-17: 1 samples  
  
First 10 hashes from the last 7 days:  
1. 71cc7cf1ed7faf62ad3dfbdde26a2a257044b50fa2446347490fad24403f0f7f  
2. 628035c14718c064036edf3cd0fe349007bc37d22cca740f4880e2cde3a78bc7  
3. 903b077014c4652752cff3db65e05572096fbb16386b4c7ac10c5d951bf4bbf0  
4. ad8d2d36547bb6c3fd44a137948dae585b9c66f7f3e6c36adcb0fd1f6a130a37  
5. bccf2951c42b748568df470bdd739f93fb1a0c95540806cd042dc18a92572007  
6. 2144207c1a122498f32c574d7f7be0238a2a5424188443bd5e980ed7097b6176  
7. 1687172d191ac95dddbd7174f1ff6faf5a750dd03927c503ba7c2940eaf4706  
8. c95f4d81c8a30ed33e4f4651f526437c2a90aa11409eaa9ccf8b367f63db8e4e  
9. bb308a71fd2b233c79cd03fa937335bd69d22283c0925c998bed53e28e547425  
10. 3af5ee1e1472fe3b73fb2f207c5250e4f6941caa6ab1969768ed641abfd64f2d  
... and 90 more in the file
```

First, let's grab any communicating IPs. Using VT API we can see that the malicious files are communicating with 292 IPs. Now that we have our IPs, we'll group them and try to filter out dead end pivots. What I mean by that is, since most of the domains associated with Lumma are usually hidden behind CDN like Cloudflare, Akamai etc, we'll filter those out as it's nearly impossible to pivot.



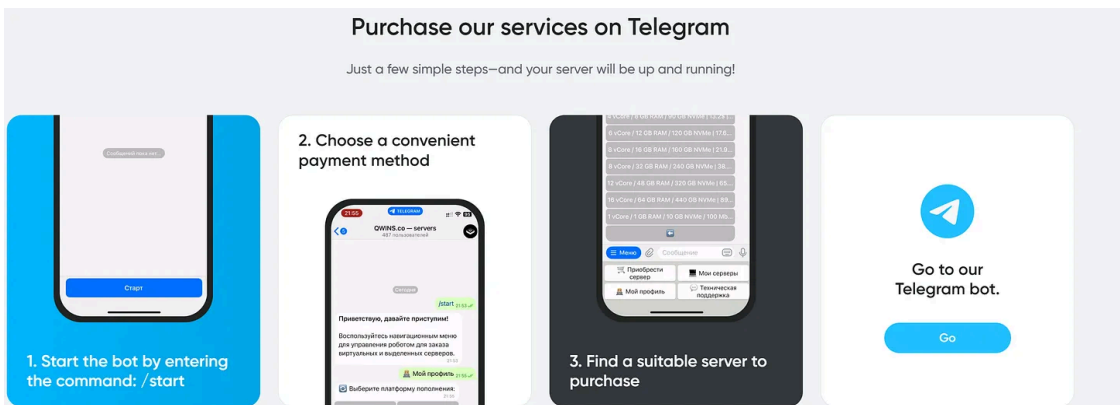
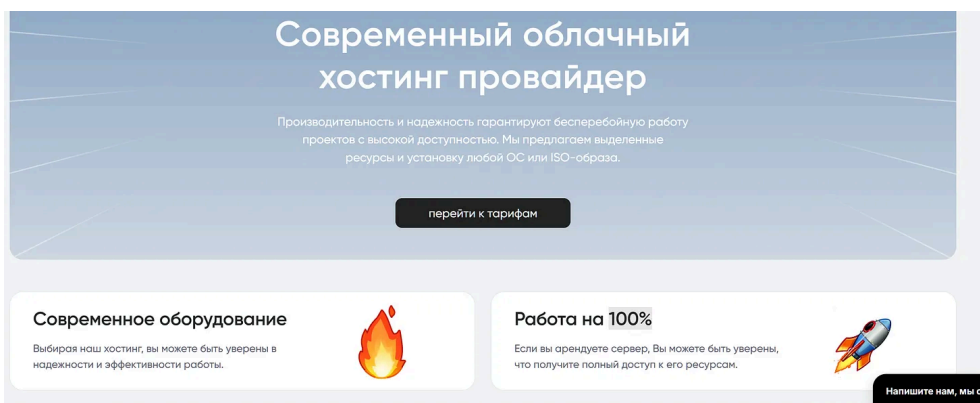
After filtering the IPs and ASN, we are left with 10 unique IPs spread across 10 unique ASN so there is no immediate pattern in the grouping.

```
141.98.6.34 - AS213702, Qwins LTD  
185.215.113.51 - AS51381, (ELITETEAM-PEERING-AZ1 1337TEAM PEERING AZ1)  
144.172.115.212 - AS14956, ROUTERHOSTING  
167.160.161.12 - AS214943, Railnet LLC
```

104.251.123.89 - AS14315, 1GSERVERS, LLC
146.70.100.103 - AS9009, M247 Europe SRL
176.46.152.39 - AS214351, FEMO IT SOLUTIONS LIMITED
198.54.117.242 - AS22612, Namecheap, Inc.
45.134.26.137 - AS198953, Proton66 000
92.38.145.145 - AS199524, G-Core Labs S.A.

Starting with 141.98.6.34 part of the AS213702 owned by QWINS LTD we find a very interesting Russian operated hosting provider offering VPS and dedicated servers at very low prices (starting around 2\$ per month), while also offering services directly through their [Telegram bot](#).

Servers can be deployed in Russia, Germany, Finland, Netherlands, Estonia



The company was [incorporated on 11 November 2024](#) in the UK and had “Kristina Konstantinova” as acting director from the date of incorporation until April 2025 (6 months exactly). The company domain was registered one year earlier on Nov 2023

Important Dates

Created
11/16/2023

Updated
5/31/2025

Expires
11/16/2025

KONSTANTINOVA, Kristina

Correspondence address

71-75, Shelton Street, London, England, WC2H 9JQ

Role **RESIGNED**
Director

Date of birth
June 1990

Appointed on
11 November 2024

Resigned on
11 April 2025

Nationality
Estonian

Country of residence
Estonia

Occupation
Director And Company Secretary

The company was renamed on April 2025 to “QUALITY IT NETWORK SOLUTIONS LIMITED”.

Previous company names

Name

Period

QWINS LTD

11 Nov 2024 - 14 Apr 2025

Reviewing the aforementioned IP, we can see that around the end of June, a site [impersonating “Brex”](#) financial services was hosted on it.

HTTP/1.1 200 OK	Brexe - Transforming Business Finance	37.852 KB	2025-06-26	1
HTTP/1.1 200 OK	Sorry, the website has been stopped	56.92 KB	2025-06-26	1

▼ Certificate Details

Verification Status
 undefined


Issuer
C=US, O=Let's Encrypt, CN=R11

Not Before
2025-05-30T16:21:29Z 

Not After
2025-08-28T16:21:28Z 

Fingerprint (SHA1)
e833e587a0159c55bb6f87dfe327ef42052bb5f9 

Fingerprint (SHA256)
5d7c2bf484175fad6a13ca9949a5040be73062913823d37fac8c20ab97273a9d 

Certificate Domains
brex.click 

In addition, we see many malicious files (exe,zip,rar,etc.), associated mainly with info stealers and trojans recently communicating with the same IP meaning it is used by either multiple threat actors or a single actor involved in many attacks.

Scanned	Detections	Type	Name
2025-07-22	44 / 72	Win32 EXE	NewTeam.exe
2025-07-13	45 / 71	Win32 EXE	WeweChat.exe
2025-07-13	21 / 71	Win32 EXE	main.exe
2025-07-17	43 / 72	Win32 EXE	Asynclinjector_v2.1.exe
2025-07-20	27 / 72	Win32 EXE	2025-07-20_8a4cd14cf51f2e0be689ddbe94347140_dosia_frostygoop_ghostlocker_knight_luca-stealer_poet-rat_quasar-rat_sliver_snatch
2025-07-22	0 / 60	RAR	Activate Installer v.2025 (PASS 2025).rar
2025-07-19	36 / 72	Win32 EXE	NvidiaAppSetupInt
2025-07-19	45 / 72	Win32 EXE	2025-07-19_686ed8d3e1e24d4161592628a49ccb30_black-basta_cobalt-strike_luca-stealer
2025-07-18	36 / 70	Win32 EXE	1main.exe
2025-07-09	21 / 72	Win32 EXE	2025-07-09_3910eef191054beeac73275848a13366_black-basta_cobalt-strike_luca-stealer_satacom_vidar
2025-07-15	45 / 72	Win32 EXE	2025-07-15_bdd0c17813ba1a7f7963cf02c42c8ace_black-basta_cobalt-strike_luca-stealer_satacom_vidar
2025-07-05	45 / 72	Win32 EXE	33034d44449a2e10559915f6ed6705f52f6b914279677376b9a23b5299b130528
2025-07-01	14 / 65	ZIP	ptoakddd.zip
2025-07-21	16 / 65	ZIP	Set-up.zip
2025-07-14	45 / 72	Win32 EXE	3c7e7e899aeabaddb4eaa26c29b043b7e8969628343685c9704d8c595da78162
2025-07-18	45 / 72	Win32 EXE	2025-07-16_9f54a0ad760df0257c7603764394277b_black-basta_cobalt-strike_luca-stealer_satacom_vidar
2025-07-11	22 / 71	Win32 EXE	testuser_test.exe

This hosting provider seems promising, so let's spend some more time investigating the ASN before pivoting to other networks.

Our hypothesis is that ASN 213702 is being used by threat actors and by now, we can say with high confidence that the IP 141.98.6.34 is hosting malicious payloads and is used as C2 infrastructure.

Moving over to Censys, we see that there are about 2.3K hosts in that ASN.



Results

Host Filters

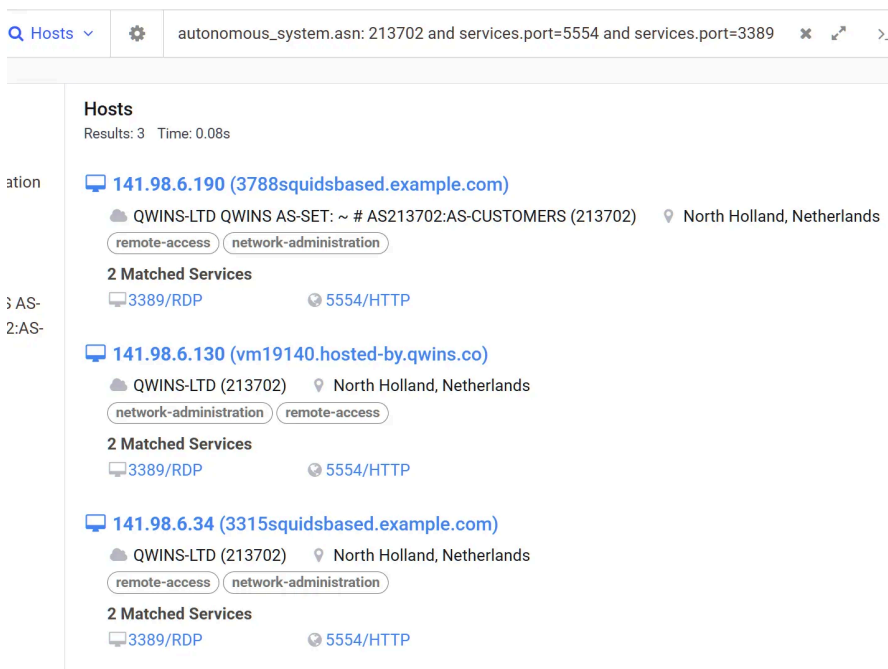
Labels:

Hosts

Results: 2,287 Time: 0.06s

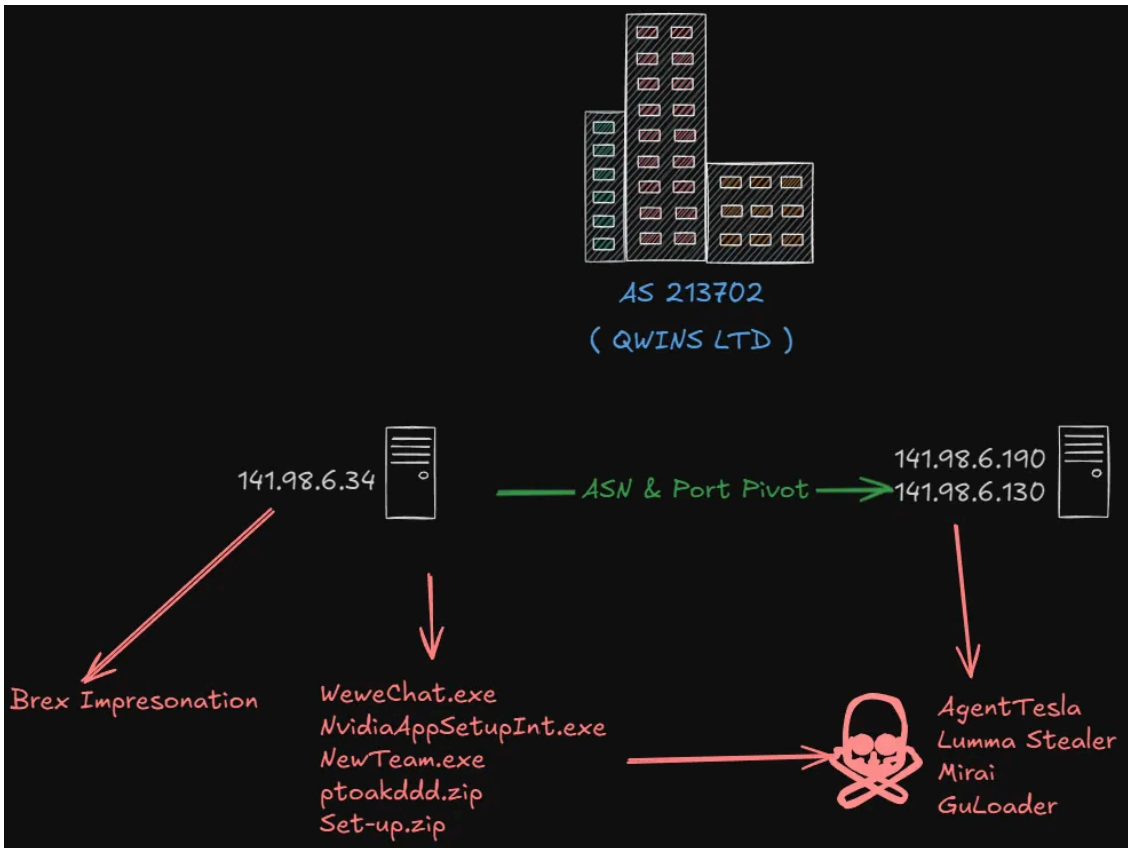
We can narrow it down by filtering for hosts that match the attributes of our IP, which leaves us with [just 3 hosts](#) which also seem to share the same self signed cert.

autonomous_system.asn: 213702 and services.port=5554 and services.port=3389



141.98.6.190
141.98.6.130
141.98.6.34

The above IPs have been linked with malware, specifically with trojans and loaders and infostealers (makoob, guloader, agenttesla) and have been active around the same time, in combination with the services and self signed certificates, I would say it's safe to cluster those 3 IPs together.



Our next pivot comes from domains hosted on our newly found cluster that trying to impersonate the database tool DBEaver.

"dbeaver.it[.]com" & "dbeaver-pro.[s]ite" are hosted on that cluster and they claim to perform SQL performance optimization.

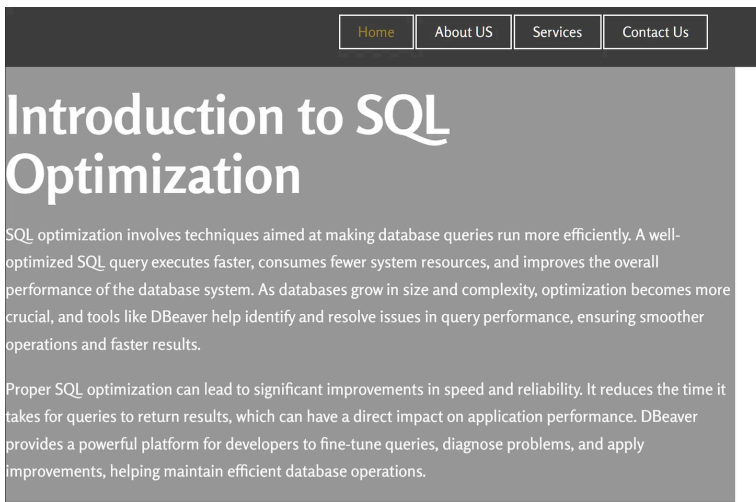
Home | About Us | Services | Contact Us | **SQL Performance Tuning**

Introduction to SQL Performance Tuning

SQL performance tuning is essential for maintaining fast and efficient database queries. Proper tuning can lead to reduced query execution times, enhancing system performance. It involves analyzing query structures and identifying bottlenecks that hinder database speed.

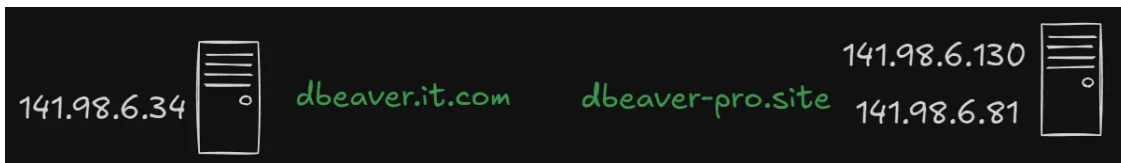
Query Optimization Techniques

dbeaver-pro[.]site



dbeaver.it[.]com

dbeaver-pro[.]site leads us to our next IP target 141.98.6.81, this IP has association mainly with botnets (mirai, quackbot, qbot, condi and more).



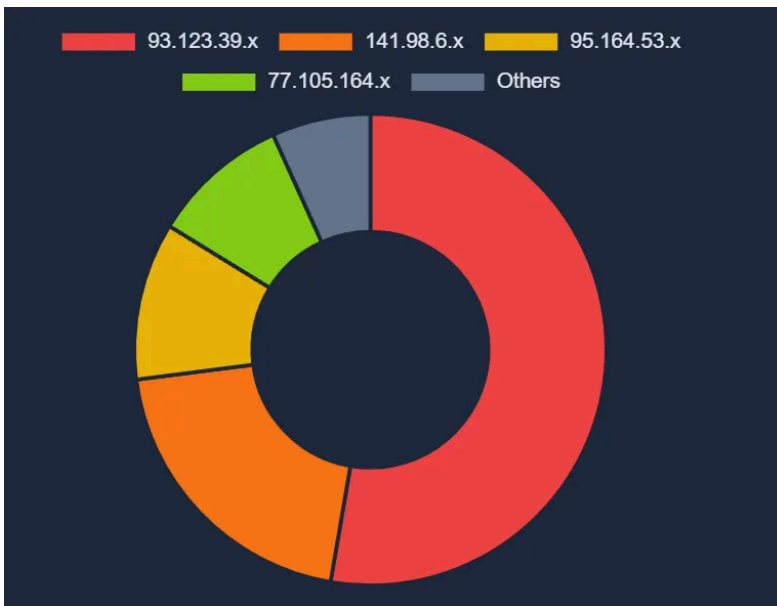
It's clear now, that many malicious activities take place in this ASN, since it's a relatively small network hosting around 3K IPs, let's try to group the malicious activity per network and map out in more detail what kind of activities originate from these networks.

As Number	As Name	CIDR Range
213702	QWINS LTD	45.67.202.0/24
213702	QWINS LTD	77.105.164.0/24
213702	QWINS LTD	84.21.189.0/24
213702	QWINS LTD	93.123.39.0/24
213702	QWINS LTD	95.164.12.0/24
213702	QWINS LTD	95.164.53.0/24
213702	QWINS LTD	95.164.55.0/24
213702	QWINS LTD	95.164.123.0/24
213702	QWINS LTD	95.164.250.0/24
213702	QWINS LTD	141.98.6.0/24
213702	QWINS LTD	185.238.191.0/24
213702	QWINS LTD	195.66.27.0/24

To keep the IoC as fresh as possible, I only focused on the last 30 days. Grabbed all the hashes, IPs and URLs that were flagged as malicious on these networks and analyzed the results.

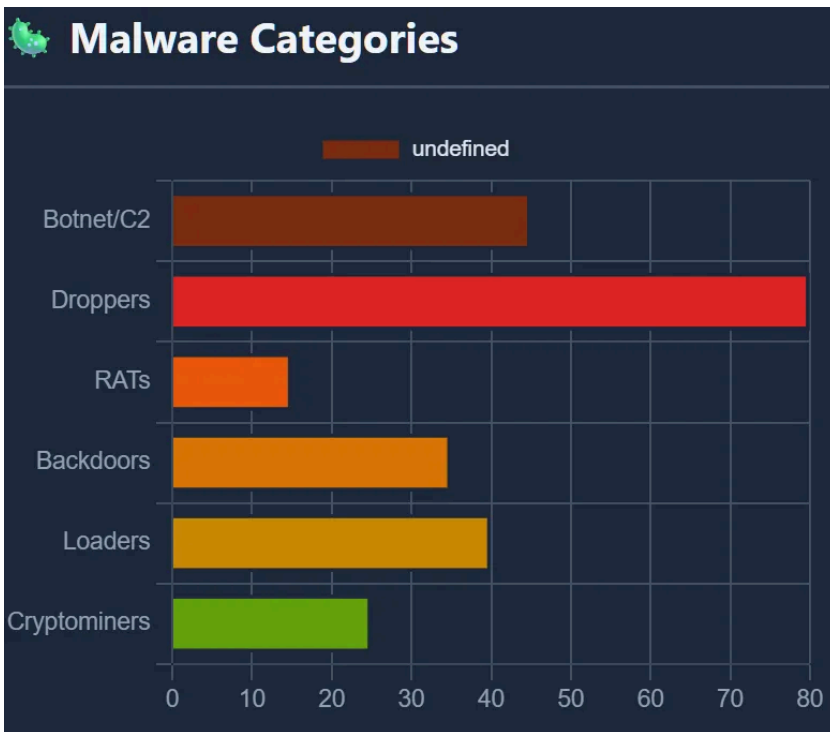


Most of the activity is originating from networks 93.123.39.0/24 and 141.98.6.0/24



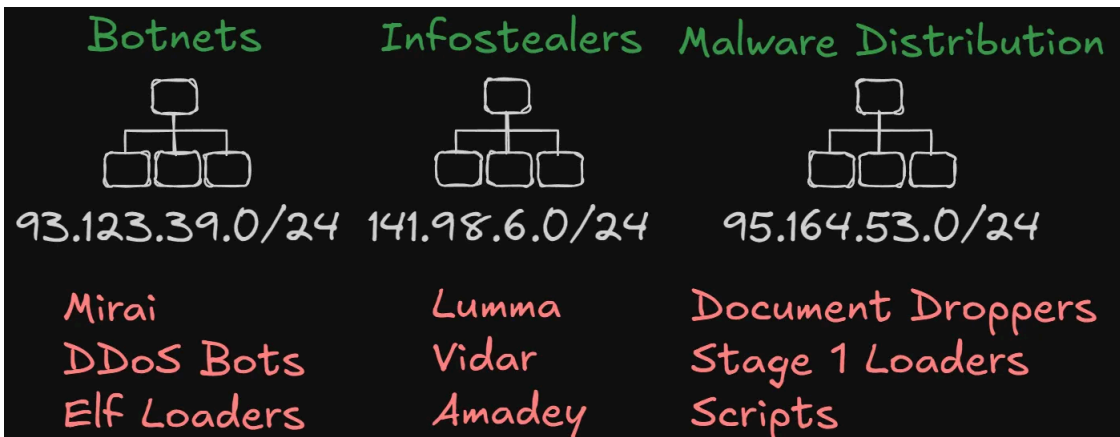
Based on the hashes found communicating and/or hosted on the networks, most of the malware is categorized as Droppers but as you can see, there is a huge variety of malware like botnet, rats, cryptominers, infostealers, targeting multiple architectures (Windows/Linux x86/x86_64, ARM, Mips). Specifically, I found a big concentration on the following malware.

- Amadey Botnet
- Mirai Botnet
- Zapchast Trojan
- Lumma
- Vidar
- DarkGate



We previously found that phishing websites and social engineering originated from the networks too, which is consistent with the initial access via document droppers (pdf, doc,zip).

Further reviewing the findings leads to additional clustering based on the malware communication.



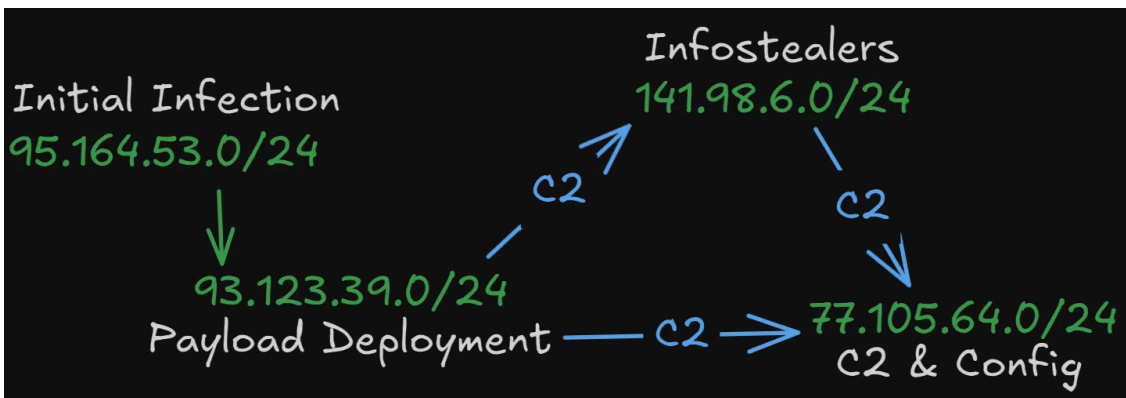
In this network, we find 39 malicious IPs spreading over than 120 payloads mainly associated with botnets, DDoS infra and C2 usually on port 666

We can find around 15 flagged IPs, hosting over 45 samples. Mainly infostealers like Amadey, Lumma and Vidar and probably C2 infra.

Found many files that look like initial payload distribution and malware hosting. It could be serving as the entry point for infection chains, hosting document droppers, and first stage loaders.

The above findings can be somewhat verified if we follow the flow of the malicious files/hashes. We can see that many droppers on the 95.164 network lead to payloads on the 93.123 network and many stealers from the 141.98

communicate the 77.105 network which I interpreted as C2 communication and data exfil.



To summarize, I think we found a very interesting hosting provider that requires further investigation, I can't say with certainty if this is or isn't a BPH but I can definitely say that there are some troubling signs.

In any case, this is all I have for now. I will follow up on some of the leads and see what other connections might appear.

If anyone has previously worked on that please reach out.

As always, I hope you are all safe and healthy. Thanks and take care!

[Full IoC list](#)

[Linkedin](#)

[X](#)

Source: <https://intelinsights.substack.com/p/bulletproof-hosting-hunt>