

STORM ⚡ WATCH

CYBERSECURITY NEWS

Deadline: 2024-04-30



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Storm ⚡ Watch by GreyNoise Intelligence

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TECHNOLOGY · UPDATED WEEKLY

GreyNoise Storm ⚡ Watch is a weekly podcast and livestream hosted by GreyNoise Intelligence (<https://www.greynoise.io>), a cybersecurity company that focuses on understanding internet noise. The show features hosts b MORE

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CYBERSECURITY NEWS

CYBERSIDE CHAT



<https://www.orangeCyberDefense.com/be/blog/unveiling-the-depths-of-residential-proxies-providers>

RESidential Proxies

From March 18, 2024 through to April 16, 2024, Duo Security and Cisco Talos observed large-scale brute force attacks on multiple models of VPN devices.

From April 19, 2024 through to April 26, 2024, Okta's Identity Threat Research team observed a spike in credential stuffing activity against user accounts from what appears to be similar infrastructure.

Credential Stuffing

Attempts to sign-in to online services using large lists of usernames and passwords obtained from previous data breaches of unrelated entities, or from phishing or malware campaigns.

All recent attacks share one feature in common: they rely on requests being routed through anonymizing services such as TOR.

Millions of the requests were also routed through a variety of residential proxies including NSOCKS, Luminati and DataImpulse.

RESIP providers leverage real users' devices like computers, smartphones, and IoT devices to create large pools of residential IP addresses, which are more effective at evading detection than datacenter or VPN IPs.

GreyNoise Trends

SQUELDA MSSQL BRUTE FORCE ATTEMPT

INTENTION

MALICIOUS

CATEGORY

Activity

CVES

No associated CVEs

IP addresses with this tag have been observed using the SQLDict tool which utilizes squelda 1.0 to conduct a MSSQL brute force attempt via dictionary attack.

24 HOURS

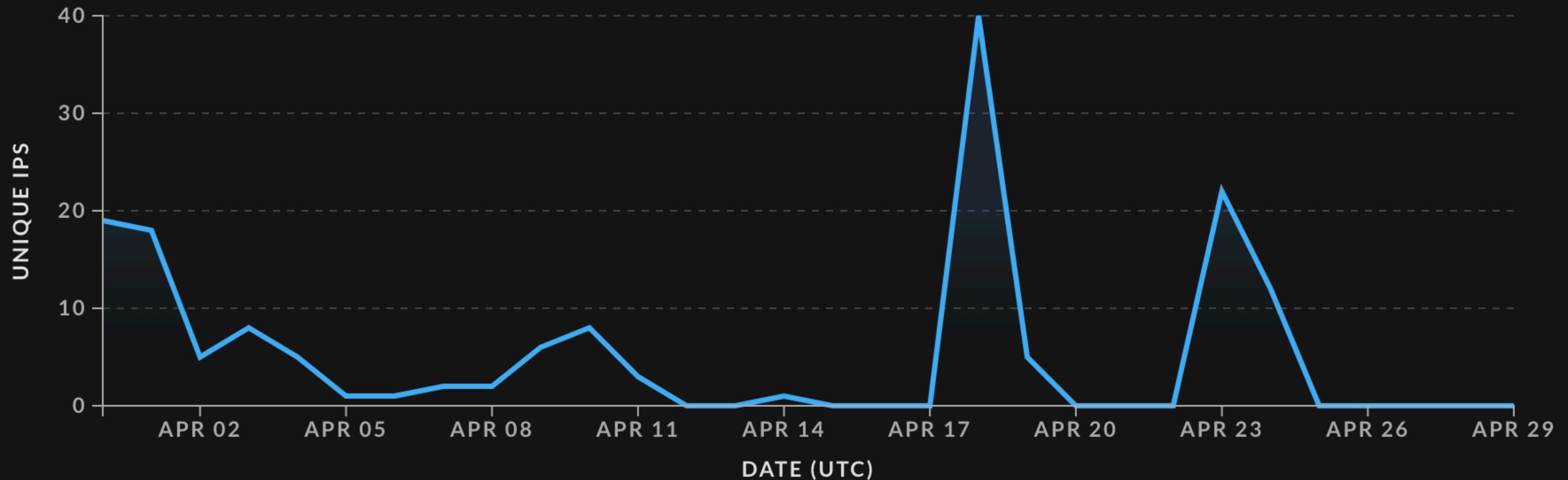
10 DAYS

• 30 DAYS

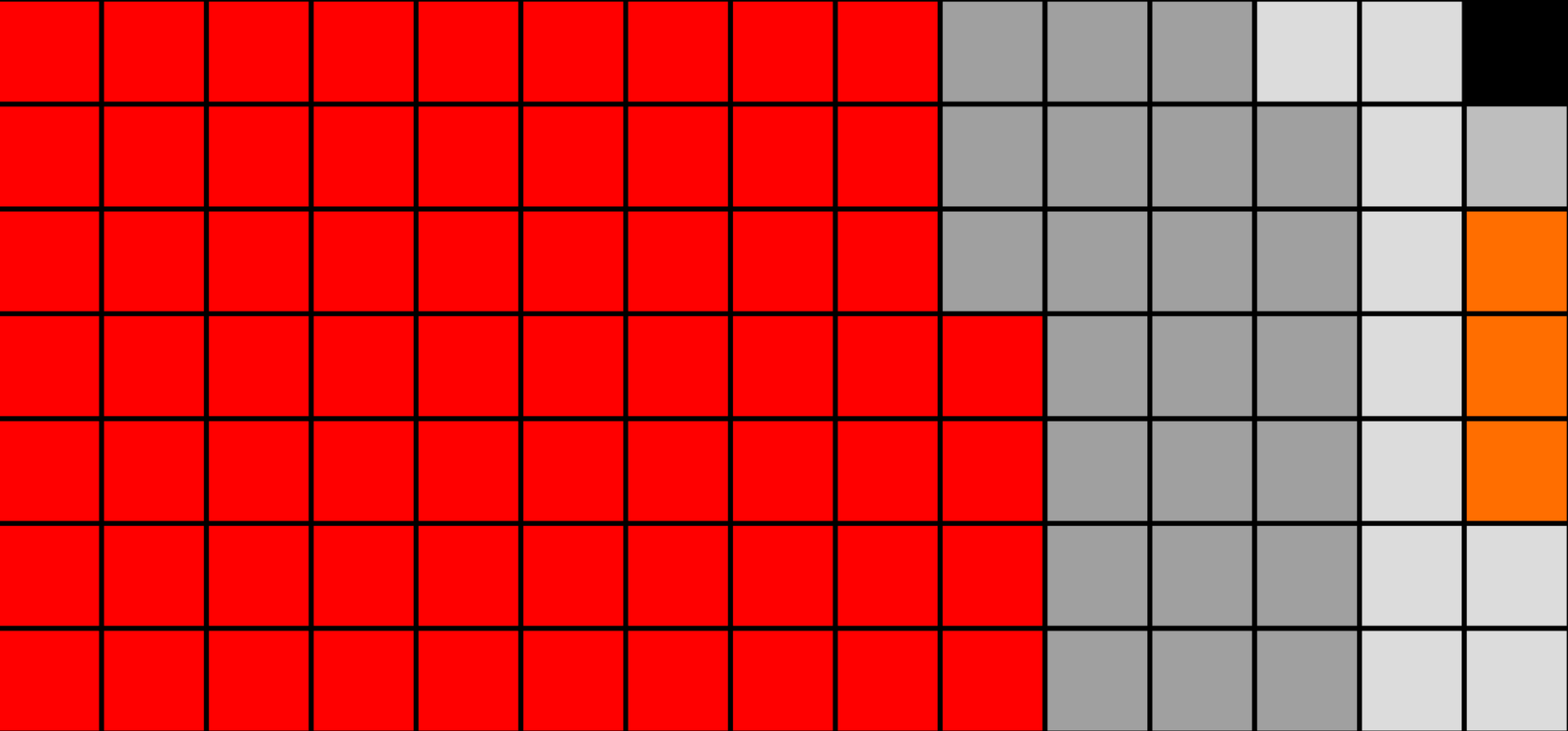
March 31, 2024 - April 29, 2024 (UTC)

Unique IPs Observed

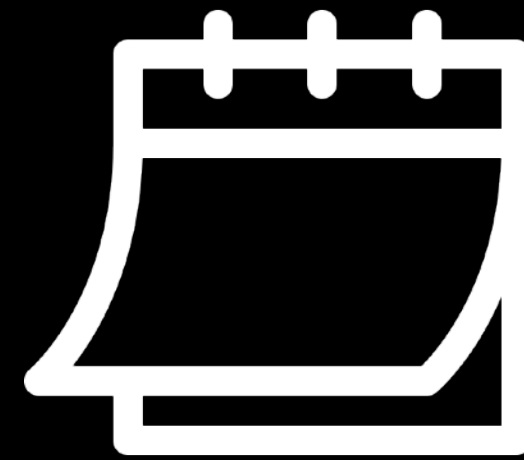
Last 30 days



squelda MSSQL Brute Force Attempts IP Categories



- business
- education
- hosting
- isp
- mobile



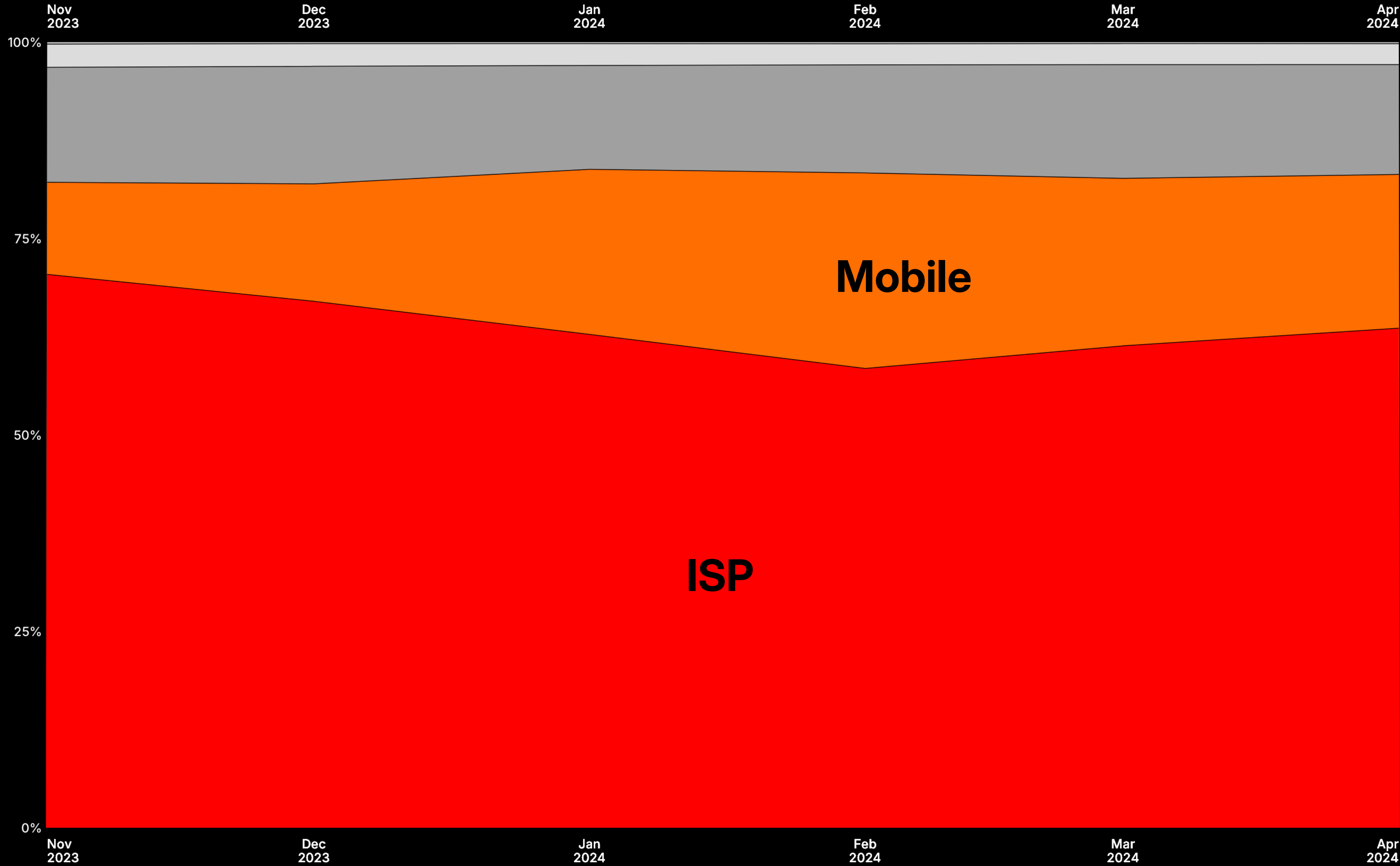
Mar-Apr 2024

60% ISP

~2 Million IPv4s

20% Mobile

~700K IPv4s



[Home](#) » [DataDome Blog](#) » [Bot & Fraud Protection](#)

How to Use Machine Learning to Detect Residential Proxies

<https://datadome.co/bot-management-protection/how-to-use-machine-learning-to-detect-residential-proxies/>

Table of Contents

- [Leveraging behavior-based ML to detect residential proxies:](#)
- [Results](#)
- [Conclusion](#)

Are you safe from bot attacks?

[Test Your Site](#)

Machine learning (ML) is an important tool for scaling sophisticated bot and online fraud protection. One way we apply ML at DataDome is to identify residential proxies.

[Residential proxies](#) are increasingly popular among attackers because their IP addresses resemble those of regular, human users. So, the ability to detect whether or not a request originates from a residential proxy significantly improves the quality of detection.

In this guide, we present one of the ML models used by DataDome to classify whether or not a residential IP address was recently used as a residential proxy by malicious bots. But before we dive into ML, we'll begin with a run-through of the basics.

What is an IP address?

An IP (Internet Protocol) address is a set of numbers that can be seen as a device's



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CYBERSECURITY NEWS

CYBER SPOTLIGHT



Computer Science > Cryptography and Security

[Submitted on 26 Apr 2024]

Merchants of Vulnerabilities: How Bug Bounty Programs Benefit Software Vendors

[Esther Gal-Or](#), [Muhammad Zia Hydari](#), [Rahul Telang](#)

Software vulnerabilities enable exploitation by malicious hackers, compromising systems and data security. This paper examines bug bounty programs (BBPs) that incentivize ethical hackers to discover and responsibly disclose vulnerabilities to software vendors. Using game-theoretic models, we capture the strategic interactions between software vendors, ethical hackers, and malicious hackers. First, our analysis shows that software vendors can increase expected profits by participating in BBPs, explaining their growing adoption and the success of BBP platforms. Second, we find that vendors with BBPs will release software earlier, albeit with more potential vulnerabilities, as BBPs enable coordinated vulnerability disclosure and mitigation. Third, the optimal number of ethical hackers to invite to a BBP depends solely on the expected number of malicious hackers seeking exploitation. This optimal number of ethical hackers is lower than but increases with the expected malicious hacker count. Finally, higher bounties incentivize ethical hackers to exert more effort, thereby increasing the probability that they will discover severe vulnerabilities first while reducing the success probability of malicious hackers. These findings highlight BBPs' potential benefits for vendors beyond profitability. Earlier software releases are enabled by managing risks through coordinated disclosure. As cybersecurity threats evolve, BBP adoption will likely gain momentum, providing vendors with a valuable tool for enhancing security posture and stakeholder trust. Moreover, BBPs envelop vulnerability identification and disclosure into new market relationships and transactions, impacting software vendors' incentives regarding product security choices like release timing.

Subjects: **Cryptography and Security (cs.CR)**; Computer Science and Game Theory (cs.GT); General Economics (econ.GN)

Cite as: [arXiv:2404.17497 \[cs.CR\]](#)
(or [arXiv:2404.17497v1 \[cs.CR\]](#) for this version)

[Submitted on 26 Apr 2024]

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✗ No specific program
✗ Theoretical Analysis (Game Theory)

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The study's primary aim is to understand how BBPs can influence software vendors' decisions regarding **software release timing**, the **setting of bounty amounts**, and the **selection of ethical hackers** to participate in these programs.

It investigates the potential benefits of BBPs for software vendors, including **increased expected profits**, **earlier software releases**, and the **optimal number of ethical hackers** to involve in a BBP *based on the expected number of malicious hackers*.

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TOOL TIME





Arkime

Network Analysis & Packet Capture

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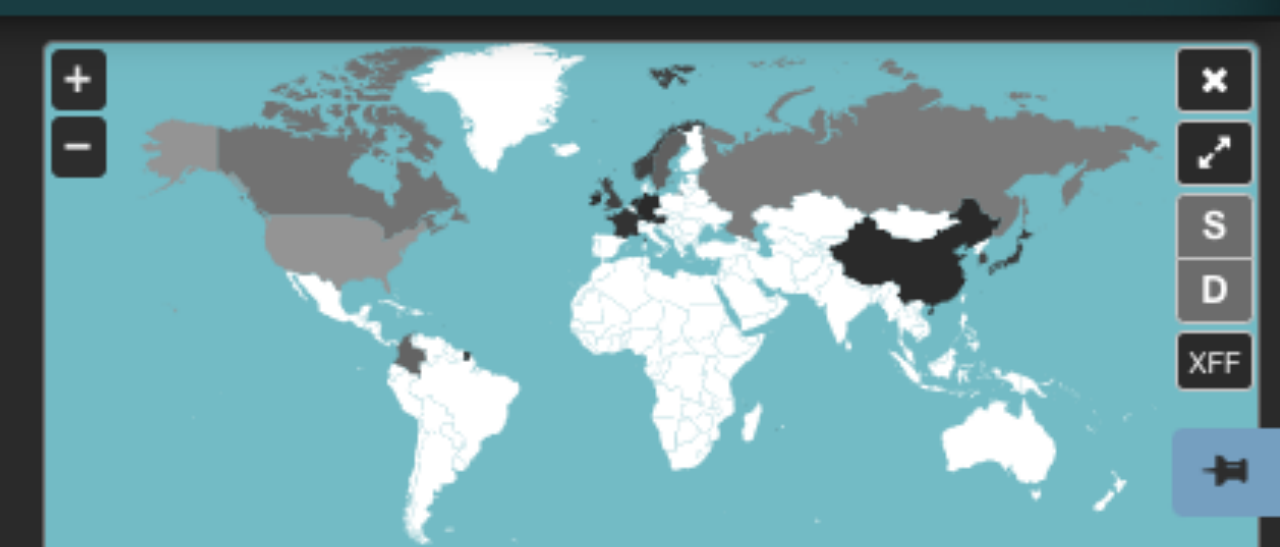
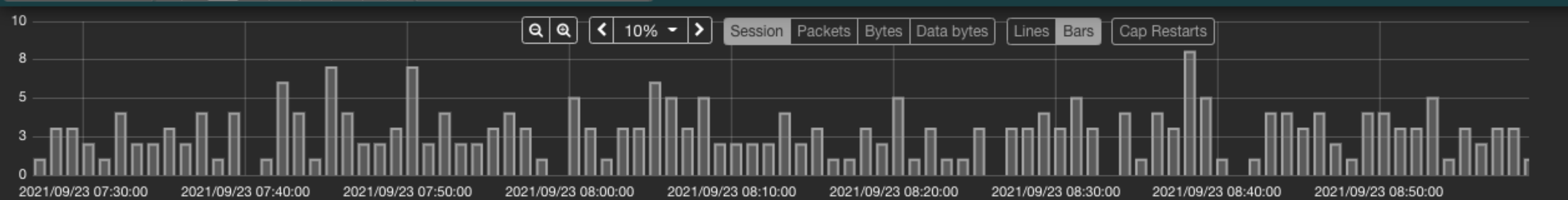


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Custom Start 2021/09/23 07:26:51 End 2021/09/23 08:59:15 Bounding Last Packet Interval Auto 01:32:24

50 per page « 1 2 3 4 5 » Showing 1 - 50 of 260 entries

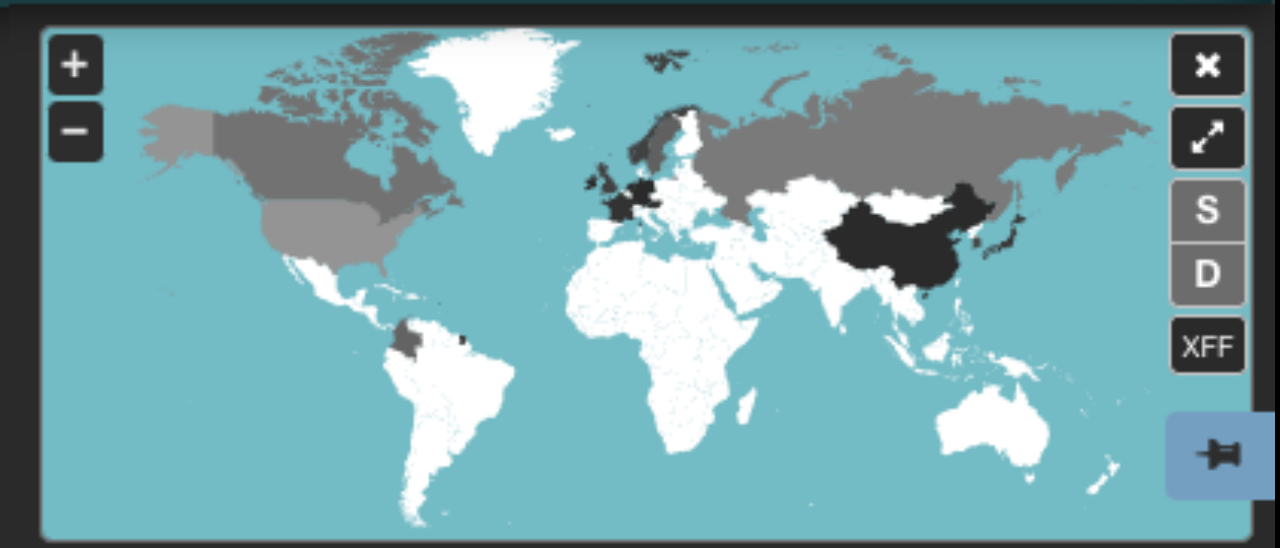
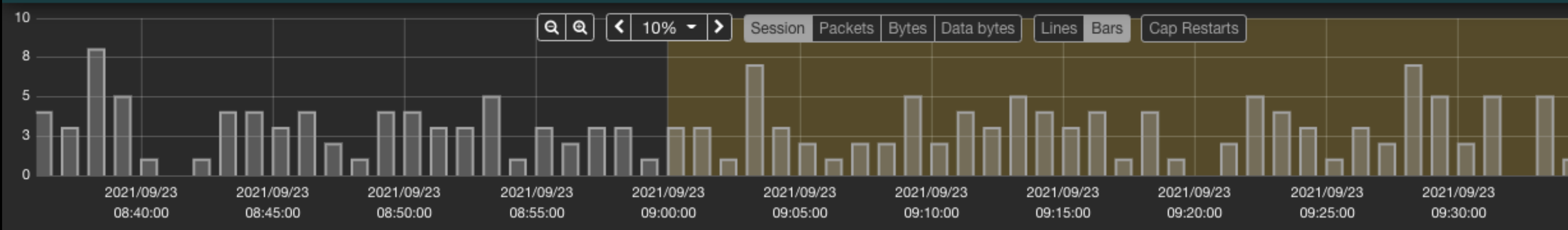


	Start Time	Stop Time	Src IP / Country	Src Port	Dst IP / Country	Dst Port	Packets	Databytes / Bytes	Arkime Node	Info
+ tcp	2021/09/23 08:57:31	2021/09/23 08:58:47	190.0.0.2	45188	10.176.192.13	80	6,443	3,245,118 3,605,688	test	URI wooden.com/detail/whenever.cgi wooden.com/guest/clue wooden.com/philosophy/climate.jpg more...
+ tcp	2021/09/23 08:53:02	2021/09/23 08:53:54	172.16.0.1	19142	192.168.177.160	80	10,394	8,422,064 9,357,850	test	URI miracle.com/because/crop.jpg miracle.com/military/barrel.gif
+ tcp	2021/09/23 08:52:25	2021/09/23 08:59:10	172.5.5.113	44482	10.11.12.13	80	9,800	4,585,731 5,095,258	test	URI employer.com/package/lawsuit.php employer.com/valuable/daughter.gif
+ tcp	2021/09/23 08:51:31	2021/09/23 08:58:30	104.16.125.34	17015	192.168.1.111	80	8,325	6,440,536 7,156,152	test	URI white.com/submit/nor.cgi white.com/cultural/far.cgi white.com/topic/mystery.php more...
+ tcp	2021/09/23 08:51:27	2021/09/23 08:55:41	64.12.21.3	25755	224.0.0.22	80	6,596	3,340,475 3,711,640	test	URI president.com/repeatedly/ship.jpg
+ tcp	2021/09/23 08:50:49	2021/09/23 08:55:31	10.0.2.15	1039	10.10.10.19	80	4,836	774,734 860,817	test	URI fall.com/band/example.jpg fall.com/substantial/virtue.cgi fall.com/impossible/avoid.jpg more...
+ tcp	2021/09/23 08:50:09	2021/09/23 08:53:44	204.62.14.153	63884	10.156.206.202	80	8,167	4,855,979 5,395,533	test	URI voice.com/adolescent/critic.gif voice.com/hour/historical.php voice.com/before/empty.gif more...
+ tcp	2021/09/23 08:49:44	2021/09/23 08:57:49	10.44.100.22	6316	10.0.0.4	80	11,861	7,050,194 7,833,550	test	URI ancient.com/attention/temperature.html ancient.com/particular/continued.php ancient.com/drag/customer.gif more...
+ tcp	2021/09/23 08:49:28	2021/09/23 08:58:11	155.230.24.155	8888	10.180.156.141	80	7,767	5,880,874 6,534,305	test	URI color.com/and/unable.cgi color.com/broad/monitor.cgi
+ tcp	2021/09/23 08:47:44	2021/09/23 08:51:50	139.162.123.134	37560	10.180.156.141	80	10,779	5,422,082 6,024,537	test	URI modern.com/im/in/crisis.php

Search [input] [button] [button]

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Showing 177 entries filtered from 4,969 total entries



general tcp (177) Unload All Load All

Search for fields to display in this category [dropdown] [dropdown] [dropdown] [dropdown] [dropdown] [dropdown] [dropdown] [dropdown] [dropdown] [dropdown] [dropdown] [dropdown] [dropdown] [dropdown] [dropdown]

[Dropdown] 10.180.156.141 (18) 10.0.0.3 (4) 216.58.194.195 (4) 10.0.0.4 (3) 10.0.0.7 (3) 10.10.10.1 (3) 10.10.10.13 (3) 10.64.11.49 (3) 10.156.206.202 (3) 10.176.171.11 (3) 74.125.24.95 (3) 192.168.0.1 (3) 10.0.0.12 (2) 10.10.10.2 (2) 10.10.10.12 (2) 10.10.10.14 (2) 10.10.10.16 (2) 10.11.12.13 (2) 10.172.10.172 (2) 31.13.74.1 (2) 38.229.70.20 (2) 64.236.64.226 (2) 66.59.111.190 (2) 74.125.228.103 (2) 104.16.125.34 (2) 118.215.80.242 (2) 172.16.0.2 (2) 172.16.0.4 (2) 172.17.96.77 (2) 172.17.96.143 (2) 188.40.206.23 (2) 190.0.0.1 (2) 190.0.0.23 (2) 192.30.252.131 (2) 192.168.65.3 (2) 192.168.177.160 (2) 192.168.178.20 (2) 204.62.14.153 (2) 216.58.208.195 (2) 217.13.4.24 (2) 224.0.0.1 (2) 224.0.0.22 (2) 10.0.0.1 (1) 10.0.0.5 (1) 10.0.0.8 (1) 10.0.0.11 (1) 10.0.0.33 (1) 10.2.95.39 (1) 10.9.8.7 (1) 10.10.10.11 (1) 10.10.10.19 (1) 10.10.10.20 (1) 10.10.10.30 (1) 10.11.11.11 (1) 10.13.13.13 (1) 10.34.0.1 (1) 10.89.85.15 (1) 10.150.10.150 (1) 10.176.192.13 (1) 10.180.121.109 (1) 10.180.156.249 (1) 13.12.11.10 (1) 14.17.32.211 (1) 23.0.0.2 (1) 23.0.0.3 (1) 52.43.228.156 (1) 54.226.182.138 (1) 64.15.116.182 (1) 66.59.111.182 (1) 68.178.213.61 (1) 74.125.24.100 (1) 74.125.24.149 (1) 74.125.228.226 (1) 74.125.228.238 (1) 104.89.119.175 (1) 129.21.171.72 (1) 129.170.17.4 (1) 155.230.24.155 (1) 172.16.0.3 (1) 172.16.44.3 (1) 172.130.128.76 (1) 173.194.68.26 (1) 190.0.0.3 (1) 190.0.0.4 (1) 190.0.0.5 (1) 190.0.0.13 (1) 190.0.0.15 (1) 190.0.0.25 (1) 192.30.252.130 (1) 192.168.0.10 (1) 192.168.1.111 (1) 192.168.8.97 (1) 192.168.25.150 (1) 192.168.40.178 (1) 192.168.56.11 (1) 192.168.56.12 (1) 192.168.65.1 (1) 192.168.168.1 (1) 192.168.170.8 (1) 192.168.170.20 (1) more...

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bgp Unload All Load All +

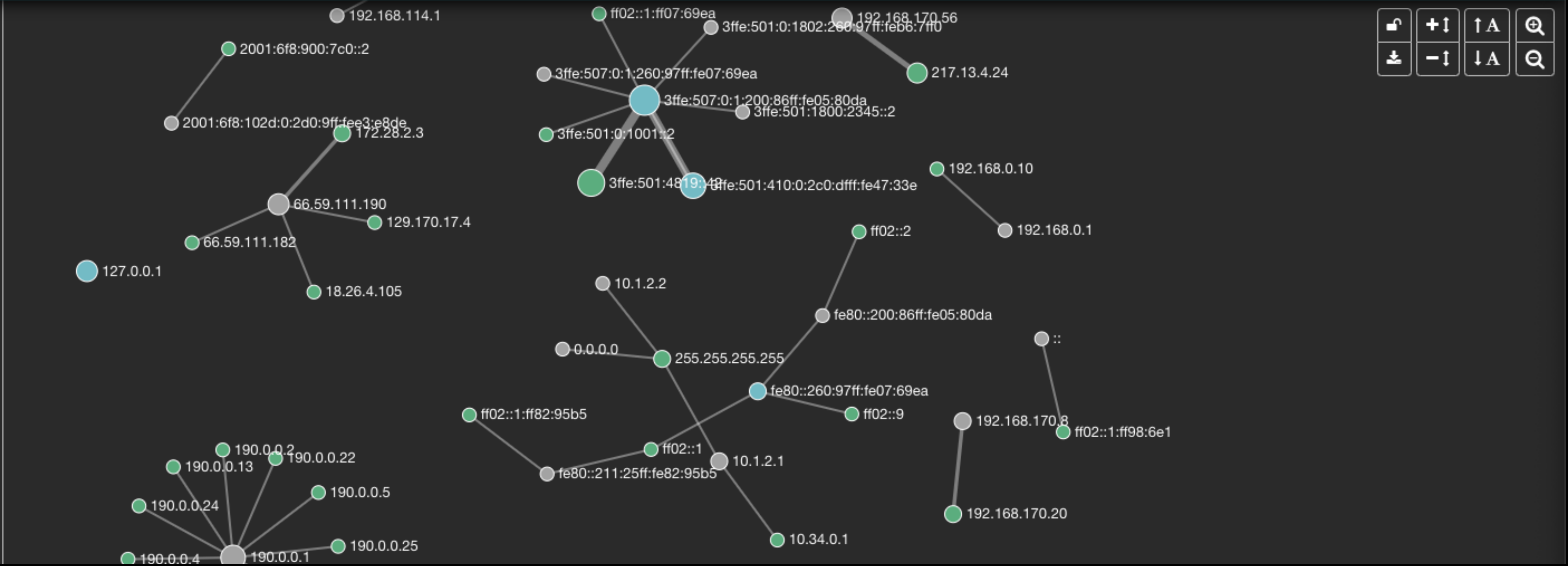
cert Unload All Load All +

cloud Unload All Load All +

190.0.0.1

Type	Source
Links	12
Sessions	12
Bytes	15,720
Data bytes	0
Packets	120
Arkime Node	test

[Hide Node](#)



Navigation controls: Home, Zoom In (+), Zoom Out (-), Full Screen (A), Search (Q), Download, Refresh, Close, Eye.

SHAMELESS SELF-PROMOTION



BLOGS

CrushFTP CVE-2024-4040: Crushed Expectations

LABS

Decrypting Fortinet's FortiOS 7.0.x

The GreyNoise Labs Team | April 23, 2024



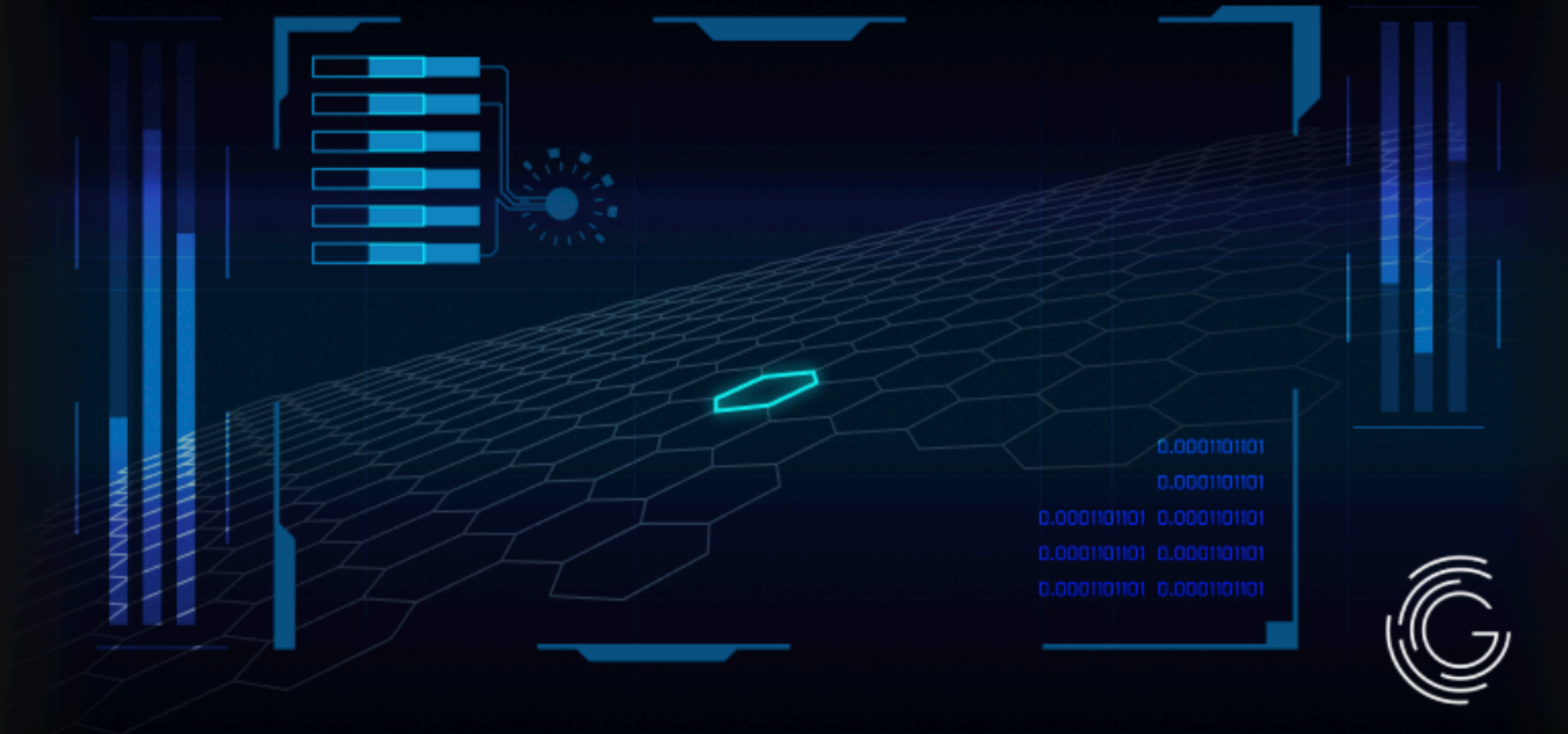
<https://www.greynoise.io/blog/decrypting-fortinets-fortios-7-0-x>



PRODUCT

Exploring GreyNoise: The User-Centric Design Approach in Cybersecurity

Donna Becerra | April 24, 2024



<https://www.greynoise.io/blog/exploring-greynoise-the-user-centric-design-approach-in-cybersecurity>

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TAG ROUND-UP



- WordPress LayerSlider CVE-2024-2879 SQL Injection Attempt (CVE-2024-2879)
- Progress Flowmon CVE-2024-2389 Command Injection RCE Attempt (CVE-2024-2389)
- Yongyou NC Cloud Arbitrary File Upload Attempt ()

<https://viz.greynoise.io/trends?view=recent>

**WE NEED
TO TALK
ABOUT
KEY**



It Has Been

6

Days Since The
Last KEV Release

<https://kev.hrbrmstr.app>

CVE-2022-38028: Microsoft Windows Print Spooler Privilege Escalation Vulnerability

CVE-2024-4040: CrushFTP VFS Sandbox Escape Vulnerability

CVE-2024-20359: Cisco ASA and FTD Privilege Escalation Vulnerability

CVE-2024-20353: Cisco ASA and FTD Denial of Service Vulnerability