

STORM ⚡ WATCH

CYBERSECURITY NEWS

Dateline: 2024-03-26



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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

<https://StormWatch.ing>



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Professor Ross Anderson, FRS, FREng

Our dear friend and treasured long term campaigner for privacy and security, Professor of Security Engineering at Cambridge University and Edinburgh University, Lovelace Medal winner, died suddenly at the family home in Cambridge overnight.

Duncan Campbell



15 September 1956 – 28 March 2024

Professor of Security Engineering at the University of Cambridge, Department of Computer Science and Technology

Bachelor of Arts in mathematics and natural science, University of Cambridge; PhD in Computer Engineering

Awarded the Lovelace Medal (2015)

Measuring the Cost of Cybercrime

Ross Anderson¹ Chris Barton² Rainer Böhme³ Richard Clayton⁴
Michel J.G. van Eeten⁵ Michael Levi⁶ Tyler Moore⁷ Stefan Savage⁸

Abstract

In this paper we present what we believe to be the first systematic study of the costs of cybercrime. It was prepared in response to a request from the UK Ministry of Defence following scepticism that previous studies had hyped the problem. For each of the main categories of cybercrime we set out what is and is not known of the direct costs, indirect costs and defence costs – both to the UK and to the world as a whole. We distinguish carefully between traditional crimes that are now ‘cyber’ because they are conducted online (such as tax and welfare fraud); transitional crimes whose modus operandi has changed substantially as a result of the move online (such as credit card fraud); new crimes that owe their existence to the Internet; and what we might call platform crimes such as the provision of botnets which facilitate other crimes rather than being used to extract money from victims directly. As far as direct costs are concerned, we find that traditional offences such as tax and welfare fraud cost the typical citizen in the low hundreds of pounds/Euros/dollars a year; transitional frauds cost a few pounds/Euros/dollars; while the new computer crimes cost in the tens of pence/cents. However, the indirect costs and defence costs are much higher for transitional and new crimes. For the former they may be roughly comparable to what the criminals earn, while for the latter they may be an order of magnitude more. As a striking example, the botnet behind a third of the spam sent in 2010 earned its owners around US\$2.7m, while worldwide expenditures on spam prevention probably exceeded a billion dollars. We are extremely inefficient at fighting cybercrime; or to put it another way, cybercrooks are like terrorists or metal thieves in that their activities impose disproportionate costs on society. Some of the reasons for this are well-known: cybercrimes are global and have strong externalities, while traditional crimes such as burglary and car theft are local, and the associated equilibria have emerged after many years of optimisation. As for the more direct question of what should be done, our figures suggest that we should spend less in anticipation of cybercrime (on antivirus, firewalls, etc.) and more in response – that is, on the prosaic business of hunting down cyber-criminals and throwing them in jail.

https://econinfosec.org/archive/weis2012/papers/Anderson_WEIS2012.pdf

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S T O R M ⚡ W A T C H

CYBERSECURITY NEWS

CYBERSIDE CHAT







⏏ In this autonomous pentest attack path, NodeZero exploited two weaknesses – a Java JMX misconfiguration and SAM credential dumping – to achieve domain compromise.


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Continuously find, fix, and verify your exploitable attack surface

The NodeZero™ platform empowers you to reduce your security risk and continuously improve your security posture

 Autonomously reveals proven attack paths in your network

 Prioritizes and details the fixes you should make immediately

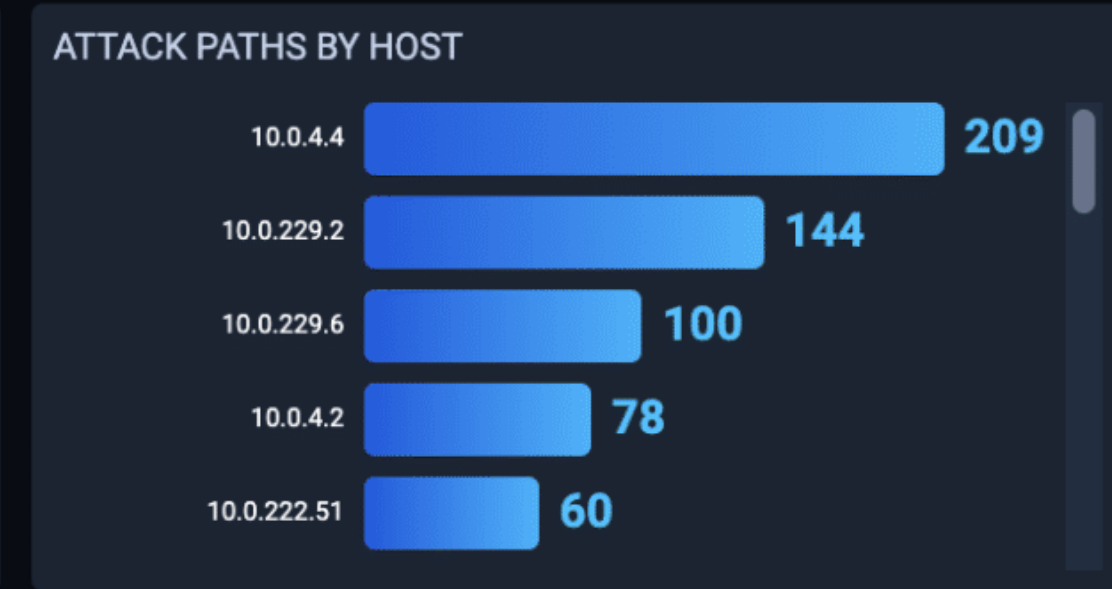
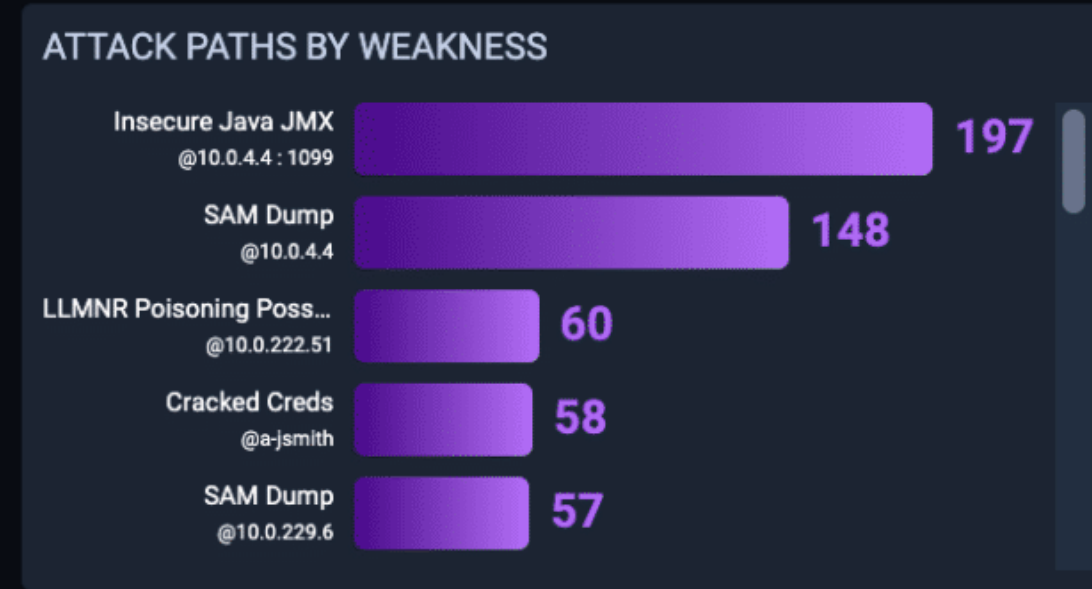
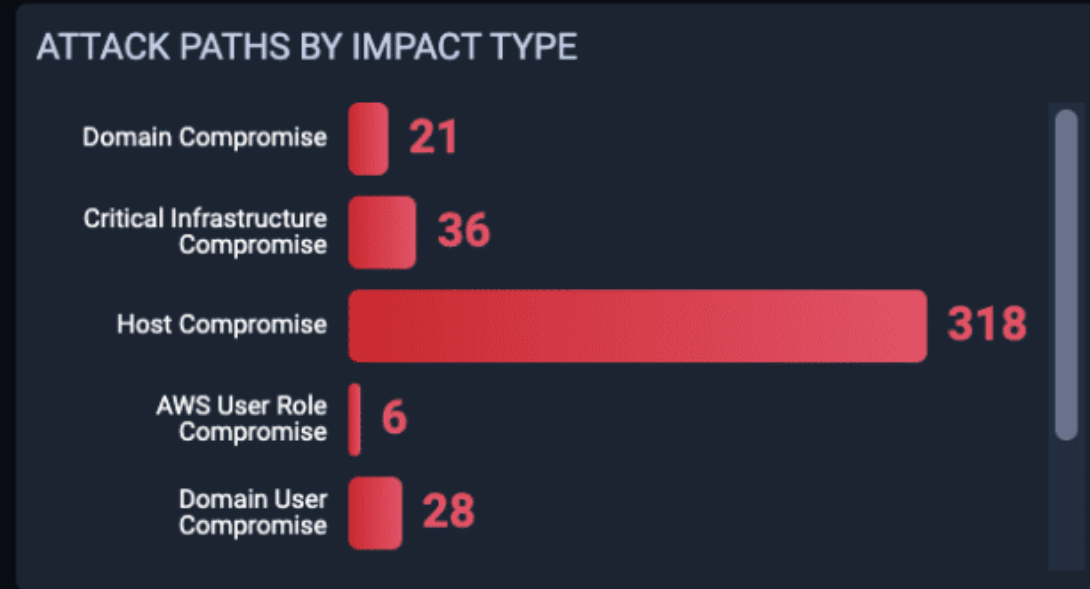
 Shows you how these weaknesses impact your organization

 Enables quick and ongoing verification that your fixes are effective

<https://www.horizon3.ai/>

ATK daily smoke test **Impacts 540** Weaknesses 507 Credentials 479 AD Password Audit 71 Data 125 Hosts 105 Subdomains 45 Services 1.4K URLs 158 Certificates 72 Users 300 Compare

ATTACK PATHS
540



IMPACT TYPES
7

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SCORE	NAME	TYPE	WEAKNESSES	CREDENTIALS	HOSTS	TIME TO COMPROMISE
10 CRITICAL	Domain Admin administrator in domain SMOKE.NET	Domain Compromise	Insecure Java JMX LSASS Dump	administrator@SMOKE.NET	10.0.4.4 10.0.229.2	1h 12m 4s
10 CRITICAL	Windows Print Spooler Remote Code Execution Vulnerability (CVE-2021-34527) found on Domain Controller 10.0.4.1 (dc01.pod04.h3airange.internal)	Domain Compromise	PrintNightmare Insecure Java JMX LSASS Dump	svr01\$@POD04.H3AIRANGE.INTERNAL	10.0.4.1 10.0.4.2 10.0.4.4	23m 37s
10 CRITICAL	Windows SMB Remote Code Execution Vulnerability (CVE-2017-0144) found on Domain Controller 10.0.229.2 (dc2.smoke.net)	Domain Compromise	EternalBlue		10.0.229.2	46m 46s
10 CRITICAL	Microsoft Windows Active Directory Certificate Services (ADCS) Privilege Escalation via User Specified Machine Account DNSHostName (CVE-2022-26923) affecting application Microsoft Active Directory Certificate Services on Domain Controller 10.0.229.2 (dc2.smoke.net)	Domain Compromise	Certifried Insecure Java JMX Cred Reuse	win10\$@SMOKE.NET jsmith@SMOKE.NET administrator@10.0.220.53	10.0.4.4 10.0.220.53 10.0.229.1	1h 36m 32s
10 CRITICAL	Domain Admin Administrator in domain SMOKE.NET	Domain Compromise	ServiceDesk+ RCE SAM Dump Shared Local and Domain Cred	Administrator@SMOKE.NET	10.0.229.2 10.0.229.6	1h 44m 21s
10 CRITICAL	Windows Print Spooler Remote Code Execution Vulnerability (CVE-2021-34527) found on Domain Controller 10.0.4.2 (dc02.pod04.h3airange.internal)	Domain Compromise	PrintNightmare Cracked Creds LLMNR Poisoning Possible	a-jsmith@SMOKE a-jsmith@POD04.H3AIRANGE.INTERNAL	10.0.4.2 10.0.222.51	23m 51s
10 CRITICAL	Windows SMB Remote Code Execution Vulnerability (CVE-2017-0144) found on Domain Controller 10.0.4.2 (dc02.pod04.h3airange.internal)	Domain Compromise	EternalBlue		10.0.4.2	3m 44s



HORIZON3.ai
TRUST BUT VERIFY

2023 YEAR IN REVIEW

<https://www.horizon3.ai/downloads/research/elevate-your-cybersecurity-strategy-download-the-2023-year-in-review/>

► Proactive
Cybersecurity
Unleashed

Observations of the Challenges
Organizations Continue to Face



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CYBERSECURITY NEWS

CYBER SPOTLIGHT



TECH

BIG TROUBLE
IN
LITTLE
CHINA



SANCTIONS ON APT31 HACKERS

The United States Treasury Department has imposed sanctions on individuals and entities linked to the Chinese state-sponsored hacking group known as APT31. This group has been implicated in a series of cyberattacks targeting U.S. critical infrastructure sectors, including defense, aerospace, and energy. The sanctions specifically target a front company for the Ministry of State Security (MSS), and two Chinese nationals, for their roles in these campaigns. The sanctions are part of a collaborative effort with the U.S. Department of Justice, Federal Bureau of Investigation (FBI), Department of State, and the United Kingdom Foreign, Commonwealth & Development Office (FCDO).



Homework

- <https://home.treasury.gov/news/press-releases/jy2205>
- <https://www.securityweek.com/us-treasury-slaps-sanctions-on-china-linked-apt31-hackers/>
- <https://www.theguardian.com/technology/2024/mar/25/us-sanctions-chinese-hackers>
- <https://therecord.media/us-sanctions-chinese-hackers-infrastructure-attacks>
- <https://www.reuters.com/technology/cybersecurity>
- <https://nymag.com/intelligencer/article/big-tech-still-has-a-big-addiction-to-china.html>
- <https://www.aljazeera.com/news/2024/3/25/>
- <https://www.voanews.com/a/us-uk-bring-charges-sanctions-in-response-to-chinese-hacking-operation/7542641.html>

VOLT TYPHOON & H2O FACILITIES

Volt Typhoon is another Chinese state-sponsored hacking group that has been compromising U.S. critical infrastructure, including water and wastewater systems. The White House, in collaboration with the Environmental Protection Agency (EPA), announced the formation of a Water Sector Cybersecurity Task Force in response to these threats. The task force aims to engage state water sectors and water government coordinating councils to reduce the risks of cyberattacks on nationwide water systems. This initiative follows the discovery that Volt Typhoon has compromised the IT environments of multiple U.S. critical infrastructure organizations with the end goal of a future cyberattack.



Homework

- <https://www.cisa.gov/news-events/cybersecurity-advisories/aa24-038a>
- <https://www.meritalk.com/articles/>
- <https://www.darkreading.com/ics-ot-security/new-us-warning-highlights-vulnerability-of-us-water-systems-to-cyberattacks>

CHINA HACKS U.K. POLITIHACKS

The U.K. has also been a target of Chinese state-sponsored cyber espionage. Hackers affiliated with APT31 have been accused of conducting a years-long cyber-attack targeting politicians, journalists, and businesses. The operation saw political dissidents and critics of China targeted by sophisticated phishing campaigns, resulting in some email systems and networks being compromised. The U.K. government announced sanctions against individuals and a front company linked to APT31. The New Zealand government has also raised concerns with the Chinese government about its involvement in an attack.



Homework

- <https://www.theguardian.com/politics/live/2024/mar/25/rishi-sunak-conservatives-oliver-dowden-china-cyber-attacks-keir-starmer-labour-wales-uk-politics-live>

CHINA EXPANDS STATE SECRETS / "WORK SECRETS" LAW

China has revised its state secrets law, which now requires business entities in China to identify and disclose "work secrets," or non-classified information, to the government. This revision is purposely ambiguous, allowing China to potentially force U.S. tech firms to turn over proprietary information that could be used to target the U.S. government or impact the data security of Americans. The law poses a significant dilemma for U.S. tech companies operating in China, as compliance could threaten U.S. national security, while refusal could result in losing access to the Chinese market.



Homework

- <https://thehill.com/opinion/technology/>
- <https://www.forbes.com/sites/lorenthompson/2023/12/14/why-chinas-growing-challenge-to-big-tech-is-a-problem-for-the-pentagon/?sh=58d510604990>
- <https://www.cnbc.com/2024/02/28/china-doubles-down-on-national-security-expanding-its-state-secrets-law.html>
- <http://politics.people.com.cn/n1/2024/0227/c1001-40184585.html>

U.S. vs. TIKTOK

The U.S. government's scrutiny of TikTok, a popular social media platform owned by the Chinese company ByteDance, has escalated amid concerns over national security and data privacy. There have been discussions and reactions to the potential ban of TikTok in the U.S., with China criticizing the move as politicization of cybersecurity issues. The debate centers around the risks associated with the Chinese government's potential access to the data of U.S. citizens through TikTok, which has led to calls for the app to be banned or its operations in the U.S. to be segregated from its parent company.



Homework

- <https://www.cnn.com/2024/03/14/tech/china-reactions-tiktok-potential-ban-intl-hnk/index.html>

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TOOL TIME



vulnerability-lookup

<https://cve-search.github.io/vulnerability-lookup/>

vulnerability-lookup is a rewrite of cve-search to support fast vulnerability lookup correlation from different sources, independent vulnerability ID and easily manage coordinated vulnerability disclosure (CVD).

Online vulnerability-lookup available at <https://vulnerability.circl.lu>.

Features

- A fast lookup API to search for vulnerabilities and find correlation per vulnerability identifier.
- Modular system to import different vulnerability sources.
- An API for adding new vulnerability including ID assignment, state and disclosure.

Sources and Feeders

- [CISA Known](#) exploited vulnerability DB (via HTTP)
- NIST NVD CVE importer (via API 2.0)
- [CVEProject - cvelist](#) (via git submodule repository)
- Cloud Security Alliance - [GSD-Database](#) (via git submodule repository)
- GitHub [Advisory Database](#) (via git submodule repository)
- PySec [Advisory Database](#) (via git submodule repository)
- [OpenSSF Malicious Packages](#) (via git submodule repository)
- Additional sources via CSAF including certbund, CISA, Cisco, nozominetworks, OX, RedHat, Sick, Siemens.

Most recent vulnerabilities by source

The vulnerabilities are sorted by update time (recent to old)

- [github](#)
- [cvelistv5](#)
- [pysec](#)
- [gsd](#)
- [ossf_malicious_packages](#)
- [csaf_certbund](#)
- [csaf_siemens](#)
- [csaf_redhat](#)
- [csaf_cisa](#)
- [csaf_cisco](#)
- [csaf_sick](#)
- [csaf_nozominetworks](#)
- [csaf_ox](#)

Vulnerability ID	CVSS Base Score	Description	Vendor	Product	Publish Date	Last Update Date
cve-2024-28232 (NVD)		Username Enumeration in CasaOS via bypass of CVE-2024-24766	IceWhaleTech	CasaOS-UserService	2024-04-01T16:42:05.726Z	2024-04-01T16:42:05.726Z
cve-2024-3131 (NVD)		SourceCodester Computer Laboratory Management System sql injection	SourceCodester	Computer Laboratory Management System	2024-04-01T16:31:03.488Z	2024-04-01T16:31:03.488Z
cve-2024-25574 (NVD)	CVSS-v3.1: 8.8	Delta Electronics DIAEnergie SQL Injection	Delta Electronics	DIAEnergie	2024-04-01T16:04:46.800Z	2024-04-01T16:04:46.800Z
cve-2024-3129 (NVD)		SourceCodester Image Accordion Gallery App add-image.php unrestricted upload	SourceCodester	Image Accordion Gallery App	2024-04-01T16:00:05.695Z	2024-04-01T16:00:05.695Z
cve-2024-30858 (NVD)	N/A	netentsec NS-ASG 6.3 is vulnerable to SQL Injection via /admin/edit_fire_wall.php.	n/a	n/a	2024-04-01T00:00:00	2024-04-01T15:28:32.313749
cve-2024-30859 (NVD)	N/A	netentsec NS-ASG 6.3 is vulnerable to SQL Injection via /admin/config_ISCGroupSSLCert.php.	n/a	n/a	2024-04-01T00:00:00	2024-04-01T15:27:38.778885
cve-2024-30861 (NVD)	N/A	netentsec NS-ASG 6.3 is vulnerable to SQL Injection via /admin/configguide/ipsec_guide_1.php.	n/a	n/a	2024-04-01T00:00:00	2024-04-01T15:26:20.385822

SHAMELESS SELF-PROMOTION





Join Censys for a Threat Hunting Workshop & Happy Hour!

April 17, 2024 | City Winery | Philadelphia

<https://go.censys.com/threat-hunting-workshop-philadelphia-2024.html>

Lunch | 12 - 1:30 p.m.

Threat Hunting Workshop | 1:30 - 4:30 p.m. (see below for 'who should attend')

Happy Hour to follow | 4:30 p.m. (everyone welcome!)

<https://www.labs.greynoise.io/grimoire/2024-03-28-panning-for-gold/>

Panning For Gold: Sifting Through Network Logs to Write a New Tag

How do we find vulnerabilities that aren't making the news right now? By Sifting through the sensor logs!

VULNERABILITIES

DISCLOSURE

TOOLS

AUTHOR

Brianna Cluck

PUBLISHED

March 28, 2024

<https://www.greynoise.io/blog/what-were-reading-march-2024>

COMPANY

What We're Reading: March 2024

The GreyNoise Team | March 28, 2024



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TAG ROUND-UP



- 🏷️ NUU0 Firmware CVE-2016-5674 Command Injection Attempt (CVE-2016-5674)
- 🏷️ Looks Like CERT.at
- 🏷️ Apache OFBiz CVE-2023-49070 Auth Bypass Attempt (CVE-2023-49070)
- 🏷️ Embedthis GoAhead CVE-2017-17562 RCE Attempt (CVE-2017-17562)
- 🏷️ Hytec Inter HWL-2511-SS CVE-2022-36553 RCE Attempt (CVE-2022-36553)
- 🏷️ Symfony Profiler Debug Mode RCE Attempt

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

**WE NEED
TO TALK
ABOUT
KEY**



It Has Been

7

Days Since The
Last KEV Release

<https://kev.hrbrmstr.app>

<https://www.cisa.gov/known-exploited-vulnerabilities-catalog>

CVE-2023-24955: Microsoft SharePoint Server Code Injection Vulnerability