



**SECURITY
DAYS**

AKO VOJNA NA UKRAJINE ZMENILA KYBERNETICKÉ HROZBY

Pohľad do ESET telemetrie



Digital Security
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&

SME KONFERENCIE



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Ondrej Kubovic

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 **ESET Research**  @ESETresearch

Breaking. #ESETResearch discovered a new data wiper malware used in Ukraine today. ESET telemetry shows that it was installed on hundreds of machines in the country. This follows the DDoS attacks against several Ukrainian websites earlier today 1/n

9:25 PM · Feb 23, 2022



2,102 Retweets 344 Quotes 3,410 Likes 235 Bookmarks








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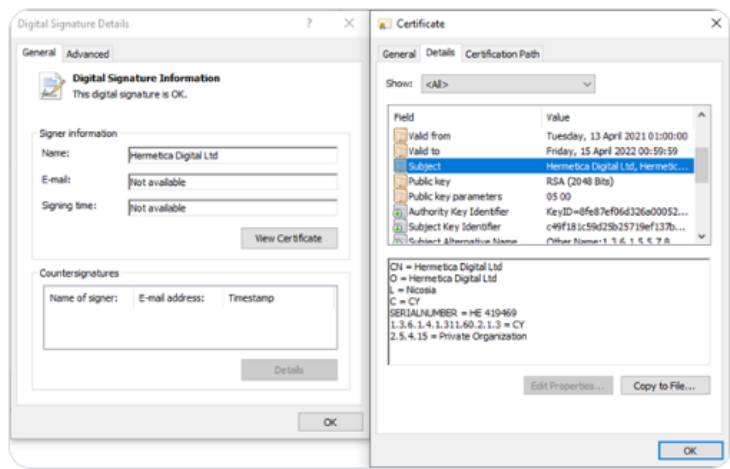
 **ESET Research**  @ESETresearch · Feb 23, 2022

We observed the first sample today around 14h52 UTC / 16h52 local time. The PE compilation timestamp of one of the sample is 2021-12-28, suggesting that the attack might have been in preparation for almost two months. 2/n

7 141 415

 **ESET Research**  @ESETresearch · Feb 23, 2022

The Wiper binary is signed using a code signing certificate issued to Hermetica Digital Ltd 3/n



The image shows two overlapping windows from a Windows operating system. The 'Digital Signature Details' window is in the foreground, showing 'Digital Signature Information' with the message 'This digital signature is OK.' Below this, there is a 'Signer information' section with fields for Name (Hermetica Digital Ltd), E-mail (not available), and Signing time (not available). There is also a 'Countersignatures' section. The 'Certificate' window is partially visible behind it, showing a table of fields and values:

Field	Value
Valid from	Tuesday, 13 April 2021 01:00:00
Valid to	Friday, 15 April 2022 00:00:00
Issuer	Hermetica Digital Ltd, Hermetica Digital Ltd
Public key	RSA (2048 bits)
Public key parameters	05 00
Authority Key Identifier	KeyID=8fe87ef66d326a00052...
Subject Key Identifier	c49f181c59425b25719ef137b...
Subject Alternative Name	CN=Hermetica Digital Ltd, D=Hermetica Digital Ltd, E=Hermetica, C=CY, SERIALNUMBER=HE 410469, 1.3.6.1.4.1.311.60.2.1.3 = CY, 2.5.4.15 = Private Organization

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 - Trending **#ArtificialIntelligence** 14.6K Tweets
 - Trending **Moldova** 6,035 Tweets
 - Trending in Slovakia **#Crypto** 1.97M Tweets
 - Trending **#CyberAttack** 2,165 Tweets

14 Jan 2022

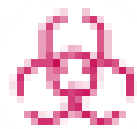


WhisperGate



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23 Feb 2022



**HermeticWiper
HermeticRansom**



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24 Feb 2022



AcidRain



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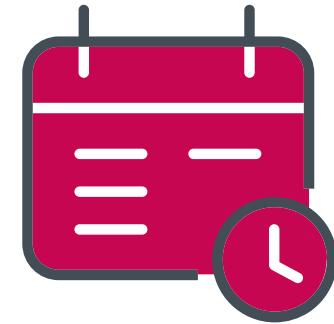
24 Feb 2022



IsaacWiper



HermeticWiper: Dopady

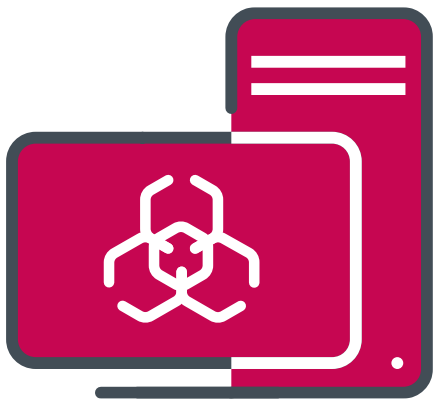


Stovky
napadnutých systémov

5+
organizácií

Dec 28, 2021
compilation timestamp*

Hermetic kampaň



HermeticWiper



HermeticWizard



HermeticRansom

14 Jan 2022



WhisperGate



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23 Feb 2022



**HermeticWiper
HermeticRansom**



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IsaacWiper



~ 10 Mar 2022



HermeticWiper

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~ 17 Mar 2022



DoubleZero

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~ 17 Mar 2022



DesertBlade

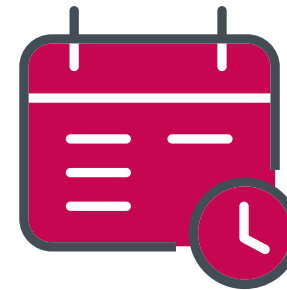
CaddyWiper



Desiatky
systémov

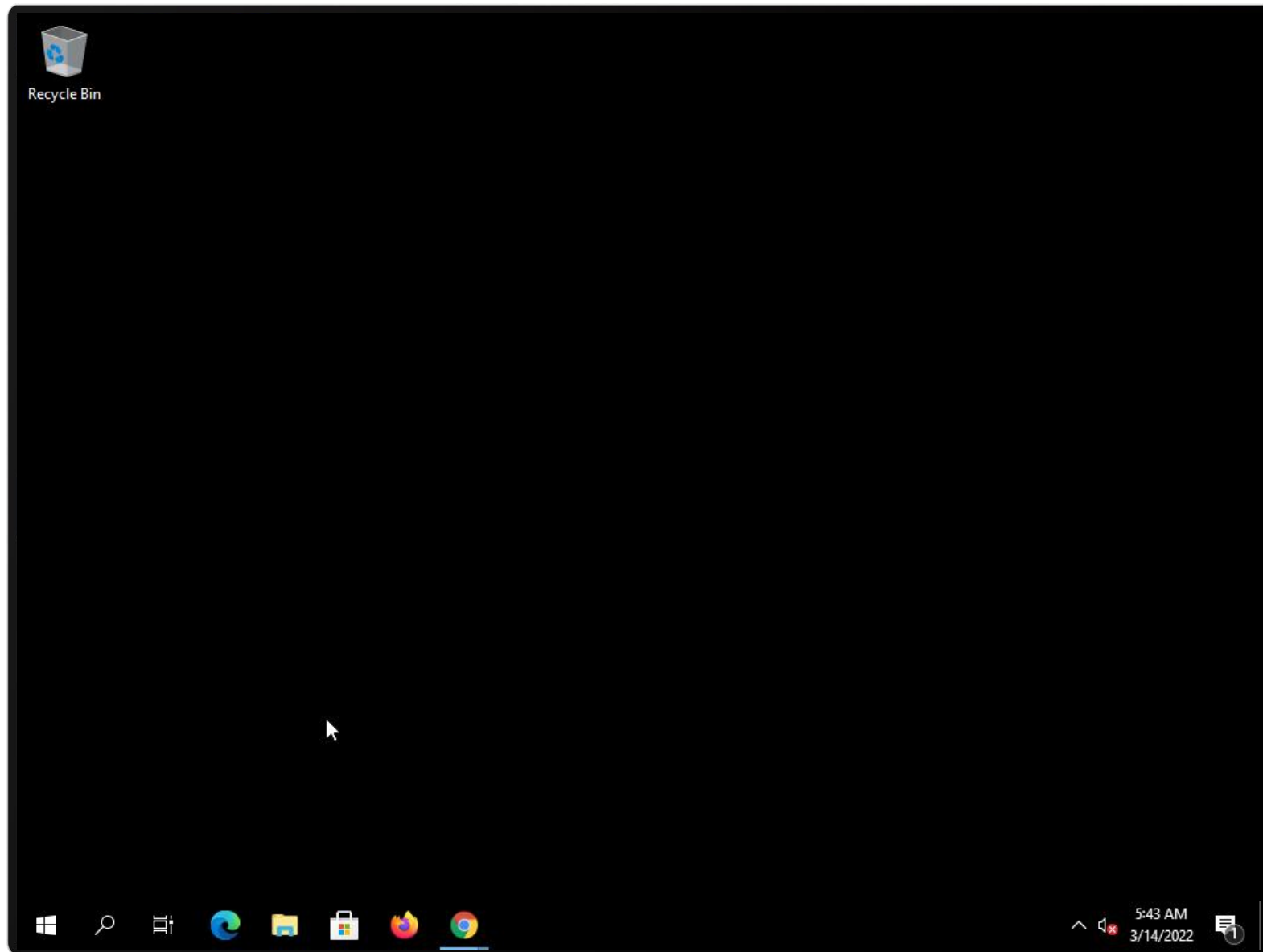


Finančný
sektor



Skompilované
a použité
14. Mar, 2022

CaddyWiper v akcji



~ 10 Mar 2022



HermeticWiper

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CaddyWiper



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DoubleZero

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~ 17 Mar 2022



DesertBlade

1 Apr 2022



ArguePatch
CaddyWiper



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8 Apr 2022



ArguePatch
CaddyWiper
ORCSHRED, SOLOSHRED, AWFULSHRED



(Industroyer 2 incident)

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~ 16 May 2022



ArguePatch
CaddyWiper



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Cyber attack of the Sandworm group (UAC-0082) on energy facilities of Ukraine using malware INDUSTROYER2 and CADDYWIPER (CERT-UA#4435)

© 12.04.2022

ШПЗ

Загальна інформація

Урядовою командою реагування на комп'ютерні надзвичайні події України CERT-UA вжито невідкладних заходів з реагування на інцидент інформаційної безпеки, пов'язаний з цільовою

By topic «ШПЗ»

© 12.05.2022

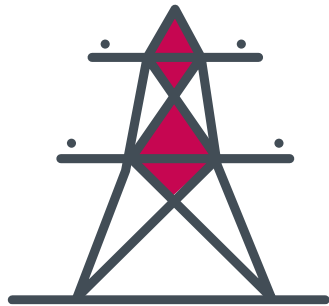
Russia's most aggressive cyberattack team attempted a third blackout in Ukraine, years after its [historic cyberattacks on the Ukrainian power grid in 2015 and 2016](#), still the only confirmed blackouts known to have been caused by hackers.

ESET and CERT-UA say the malware was planted on target systems within a regional Ukrainian energy firm on Friday. CERT-UA says that the attack was successfully detected in progress and stopped before any actual blackout could be triggered. But an earlier, private advisory from CERT-UA last week, [first reported by MIT Technology Review](#) today, stated that power had been temporarily switched off to nine electrical substations.

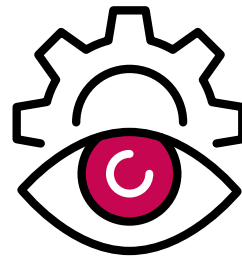
Both CERT-UA and ESET declined to name the affected utility. **But more than 2 million people live in the area it serves, according to Farid Safarov, Ukraine's deputy minister of energy.**

"The hack attempt did not affect the provision of electricity at the power company. It was promptly detected and mitigated," says Viktor Zhora, a senior official at Ukraine's cybersecurity agency, known as the State Services for Special Communication and Information Protection (SSSCIP). "But the intended disruption was huge." Asked about the earlier report that seemed to describe an attack that was at least partially successful, Zhora described it as a "preliminary report" and stood by his and CERT-UA's most recent public statements.

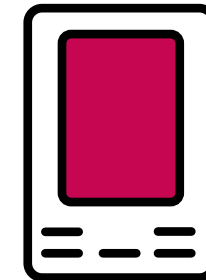
CIELE INDUSTROYER-U...



Odstávka
elektriny

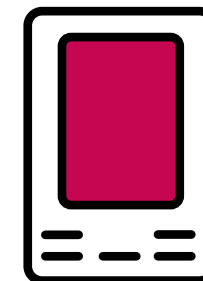


Operátori bez
prehľadu a
kontroly



Vypnutie
ochrán

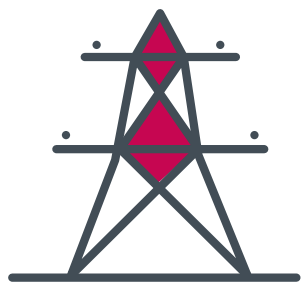
CIELE INDUSTROYER-U...



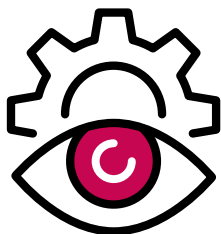
bez
i a
y

Vypnutie
ochrán

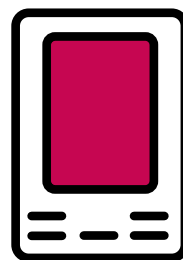
CIELE INDUSTROYER-U...V ROKU 2016



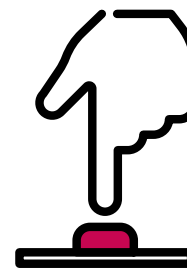
Odstávka elektriny



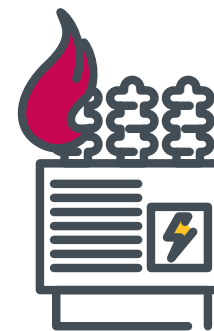
Operátori bez prehľadu a kontroly



Vypnutie ochrán



Manuálna obnova funkcie operátormi



Fyzické poškodenie

1 Apr 2022



ArguePatch
CaddyWiper



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8 Apr 2022



ArguePatch
CaddyWiper
ORCSHRED, SOLOSHRED, AWFULSHRED



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Somnia faux ransomware

Prestige faux ransomware



Napadnuté stovky
systémov



Logistické
spoločnosti



Ukrajina
a Poľsko

- 5 Oct 2022



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CaddyWiper

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25 Jan 2023  **SwiftSlicer** 

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
~20 Wiperov
zanalyzovaných

Desiatky
ochránených inštitúcií

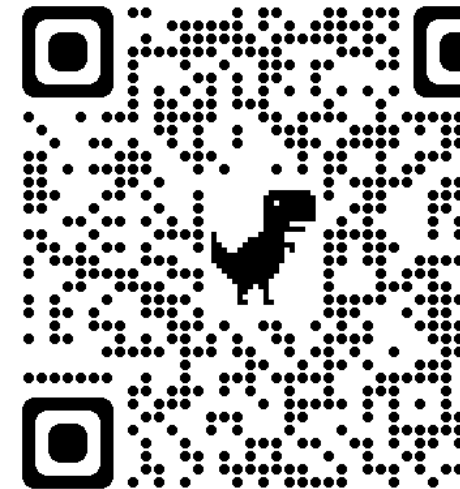
Viac ako tisíc
ochránených zariadení

A year of wiper attacks in Ukraine

ESET Research has compiled a timeline of cyberattacks that used wiper malware and have occurred since Russia's invasion of Ukraine in 2022

 ESET Research


24 Feb 2023 - 11:30AM



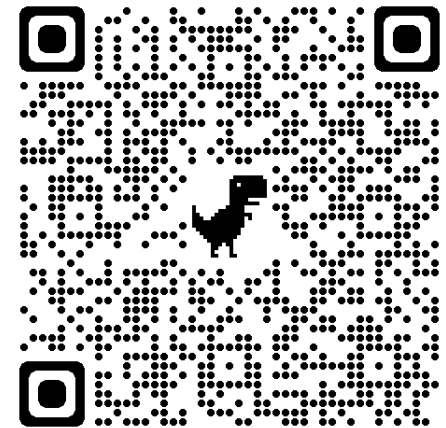
(eset):research;podcast

ESET Research Podcast: A year of fighting rockets, soldiers, and wipers in Ukraine

ESET experts share their insights on the cyber-elements of the first year of the war in Ukraine and how a growing number of destructive malware variants tried to rip through critical Ukrainian systems

 ESET Research

30 Mar 2023 - 11:30AM



THREAT REPORT T3 2022

[WeLiveSecurity.com](https://www.welivesecurity.com)

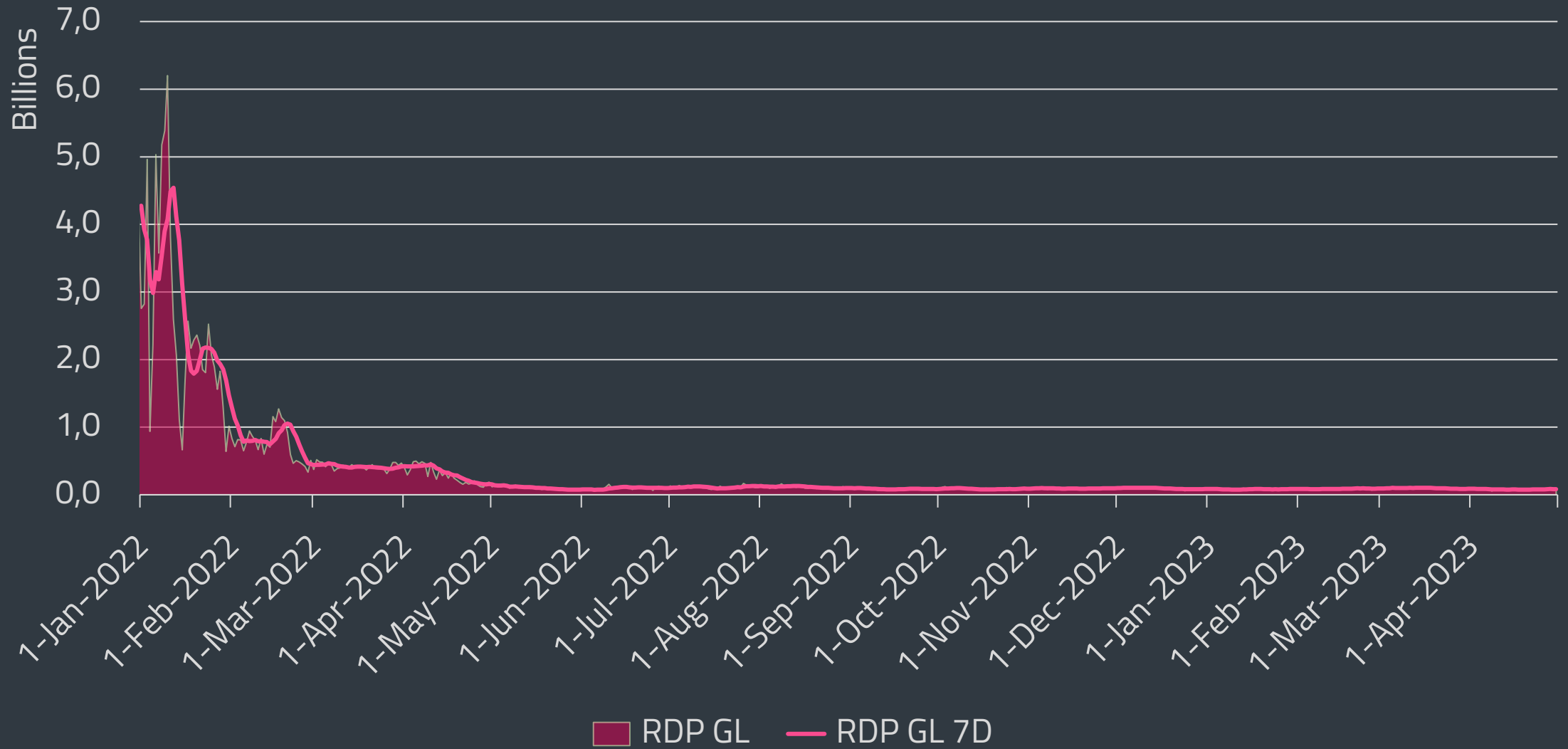
[@ESETresearch](https://twitter.com/ESETresearch)

[ESET GitHub](https://github.com/ESET)

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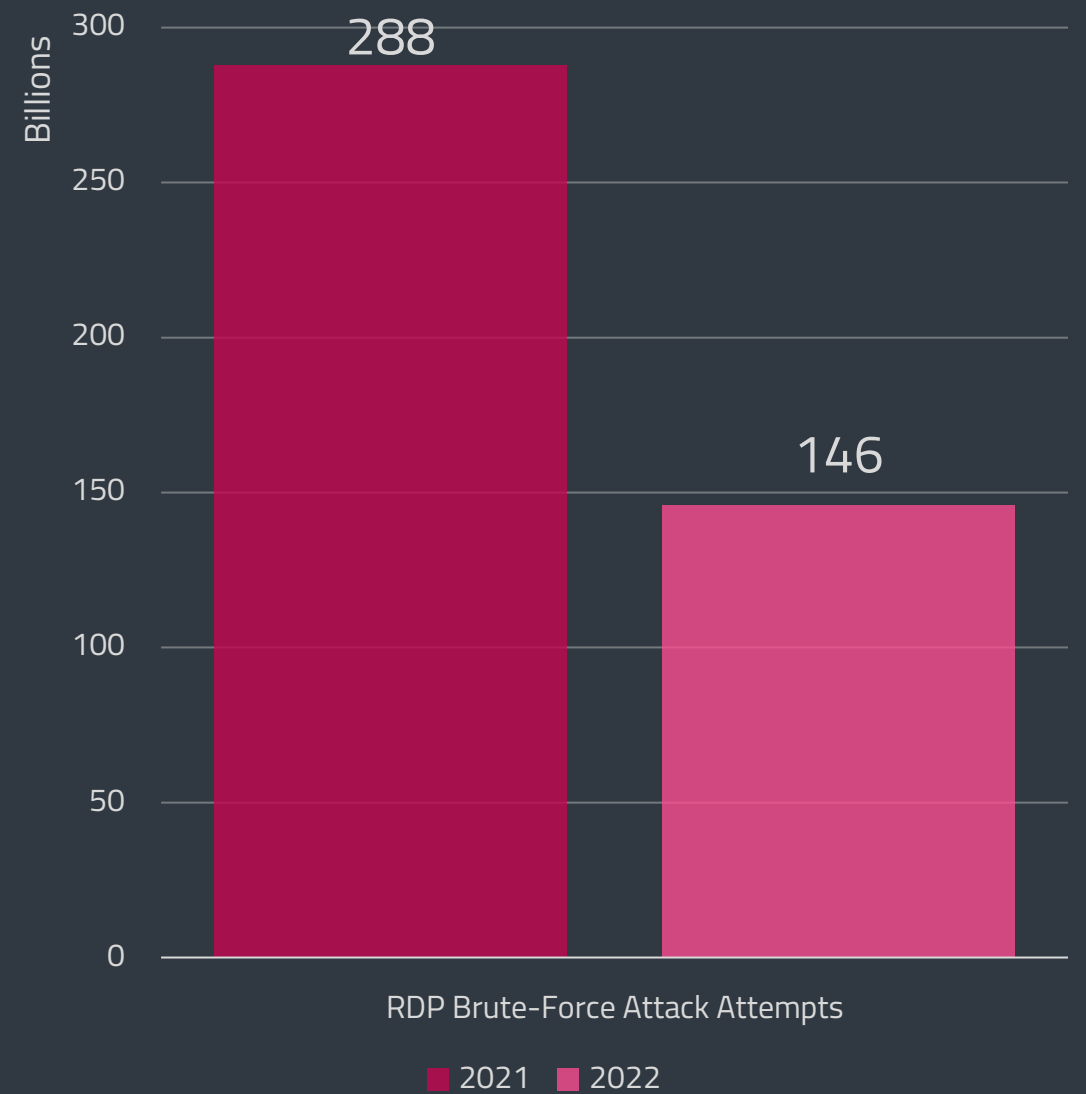
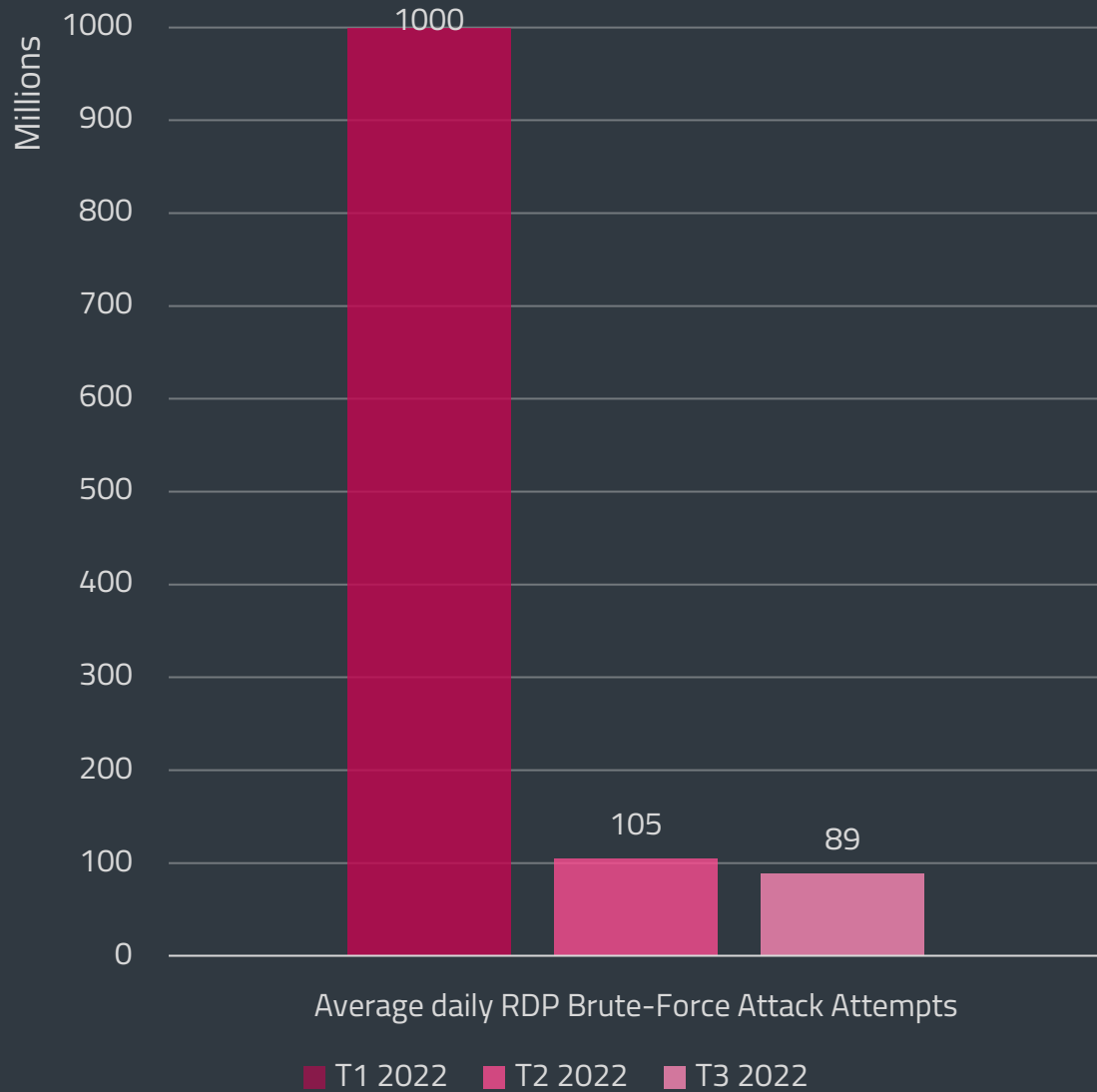
3	FOREWORD
4	EXECUTIVE SUMMARY
5	FEATURED STORY
8	NEWS FROM THE LAB
11	STATISTICS & TRENDS
12	THREAT LANDSCAPE OVERVIEW
13	TOP 10 MALWARE DETECTIONS
14	INFESTEALERS
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25	WEB THREATS
28	EMAIL THREATS
31	ANDROID
34	macOS AND iOS
36	IoT SECURITY
38	EXPLOITS
41	ESET RESEARCH CONTRIBUTIONS

Globálne RDP útoky klesli o viac ako 90%

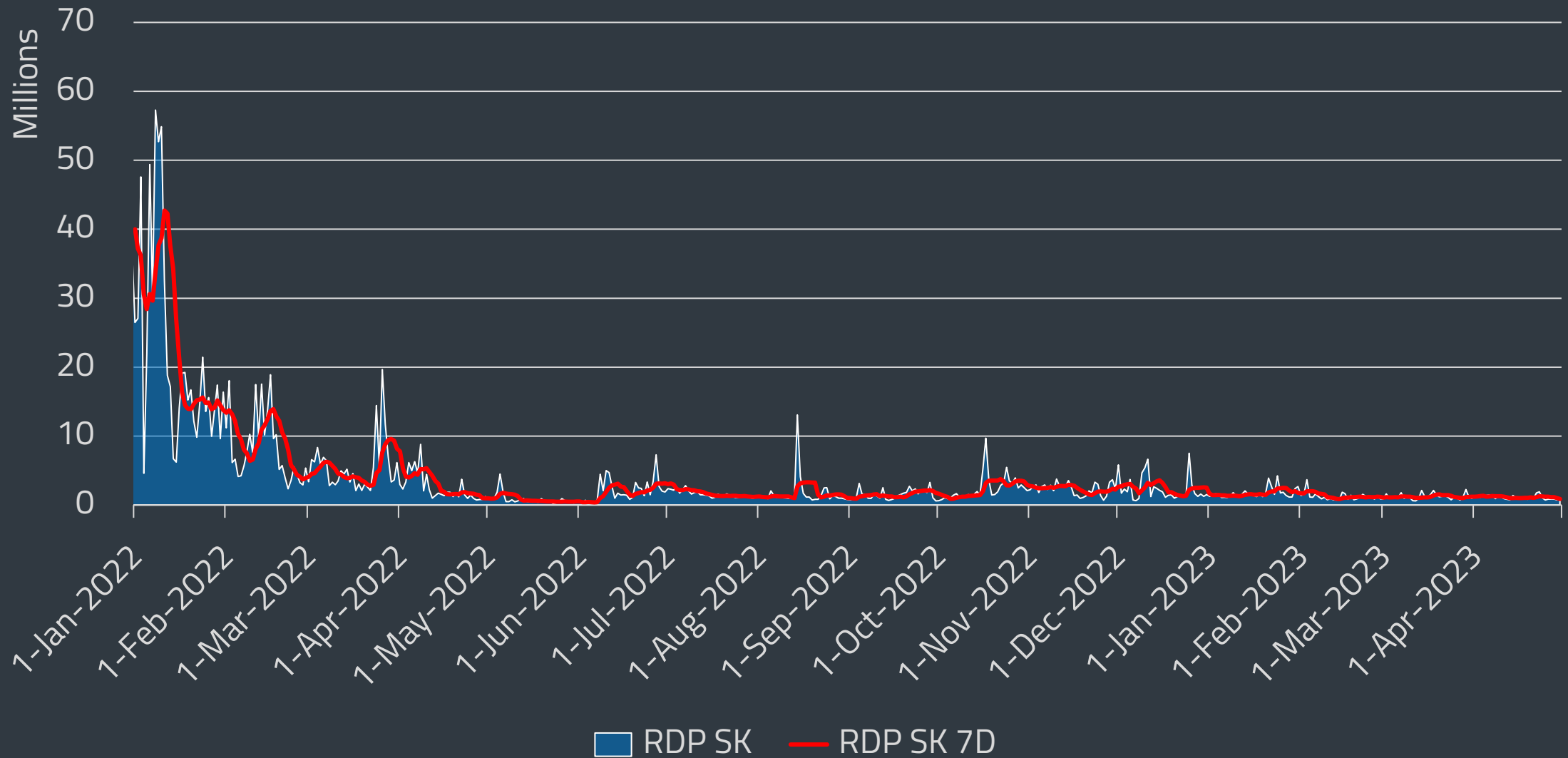


Trends pokusov o pripojenie cez RDP v roku 2022-2023, sedemdňový kľzavý priemer

Medziročne sa RDP útoky prepadli o polovicu

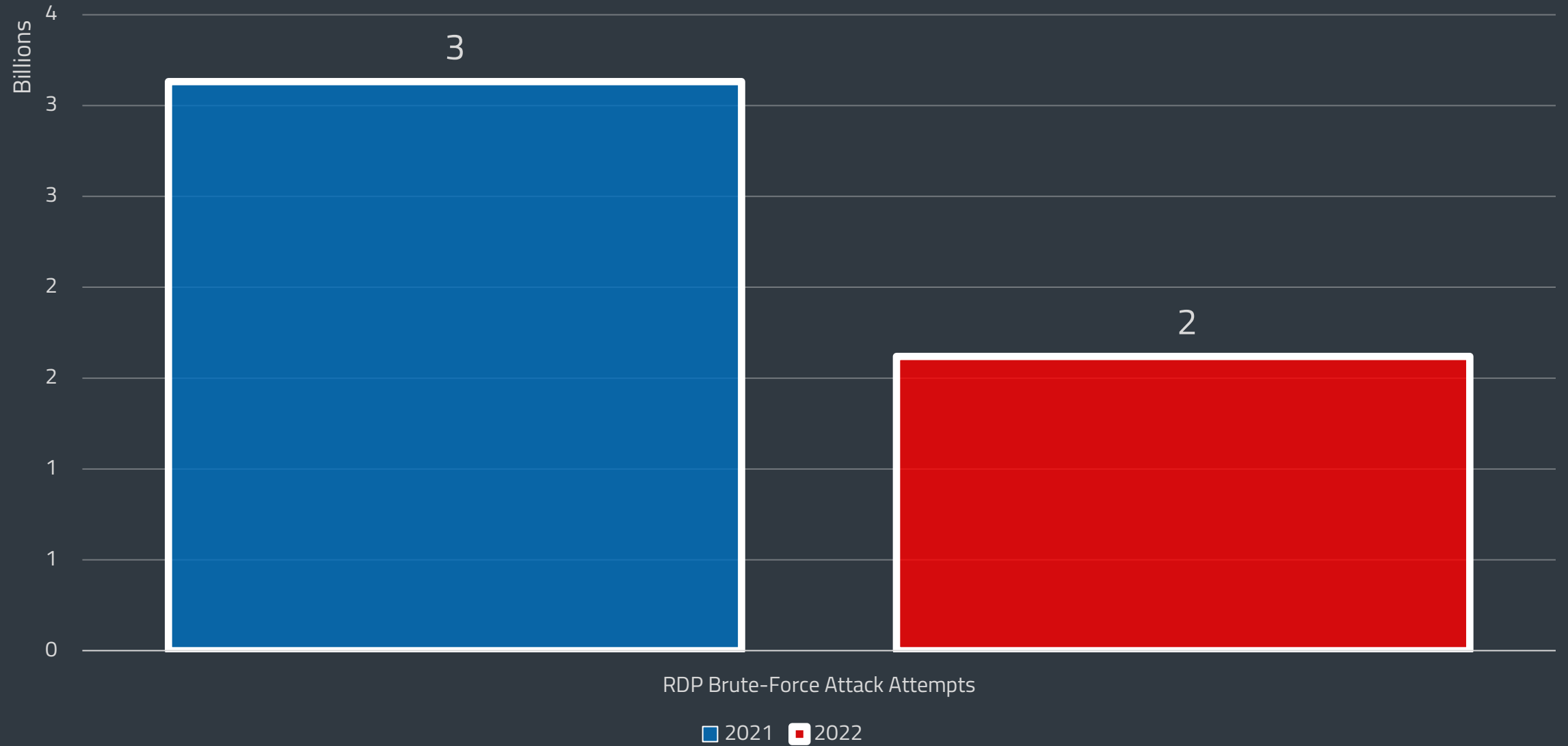


RDP útoky na Slovensku klesli o 84%, následne však rástli



Trends pokusov o pripojenie cez RDP v roku 2022-2023, sedemdňový kľzavý priemer

Na Slovensku bol pokles o niečo pomalší



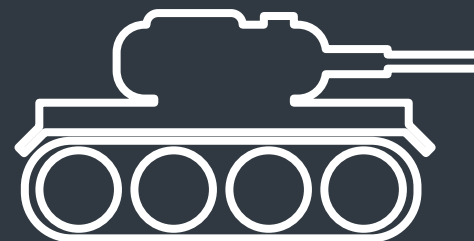
Možné dôvody pre klesajúci trend



Menej práce
na diaľku



Lepšie bezpečnostné
povedomie



Vojna na
Ukrajine

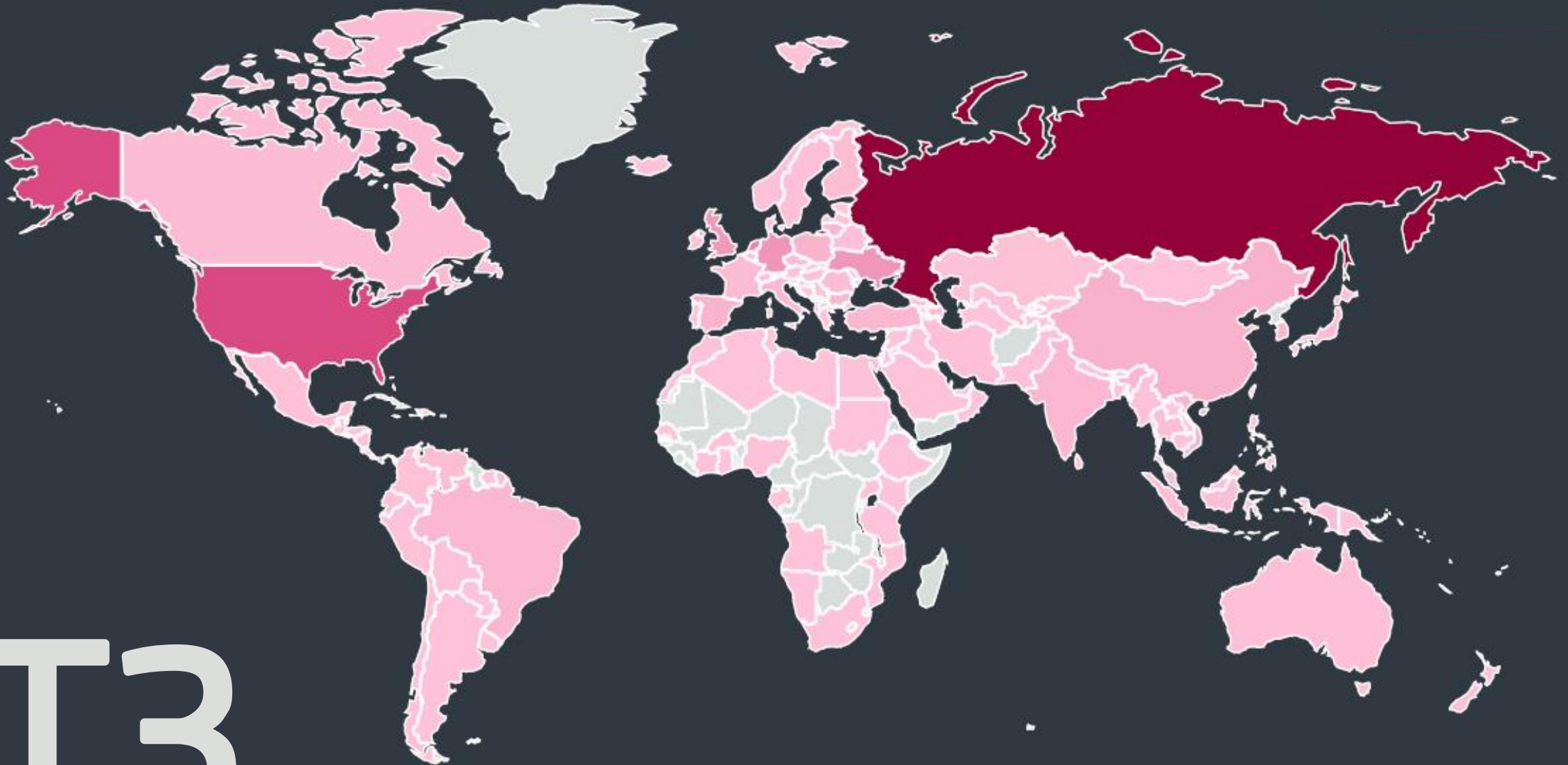


Brute-force
lockout vo Win11

Útočiace IP adresy (RDP)

0.0%

31.5%

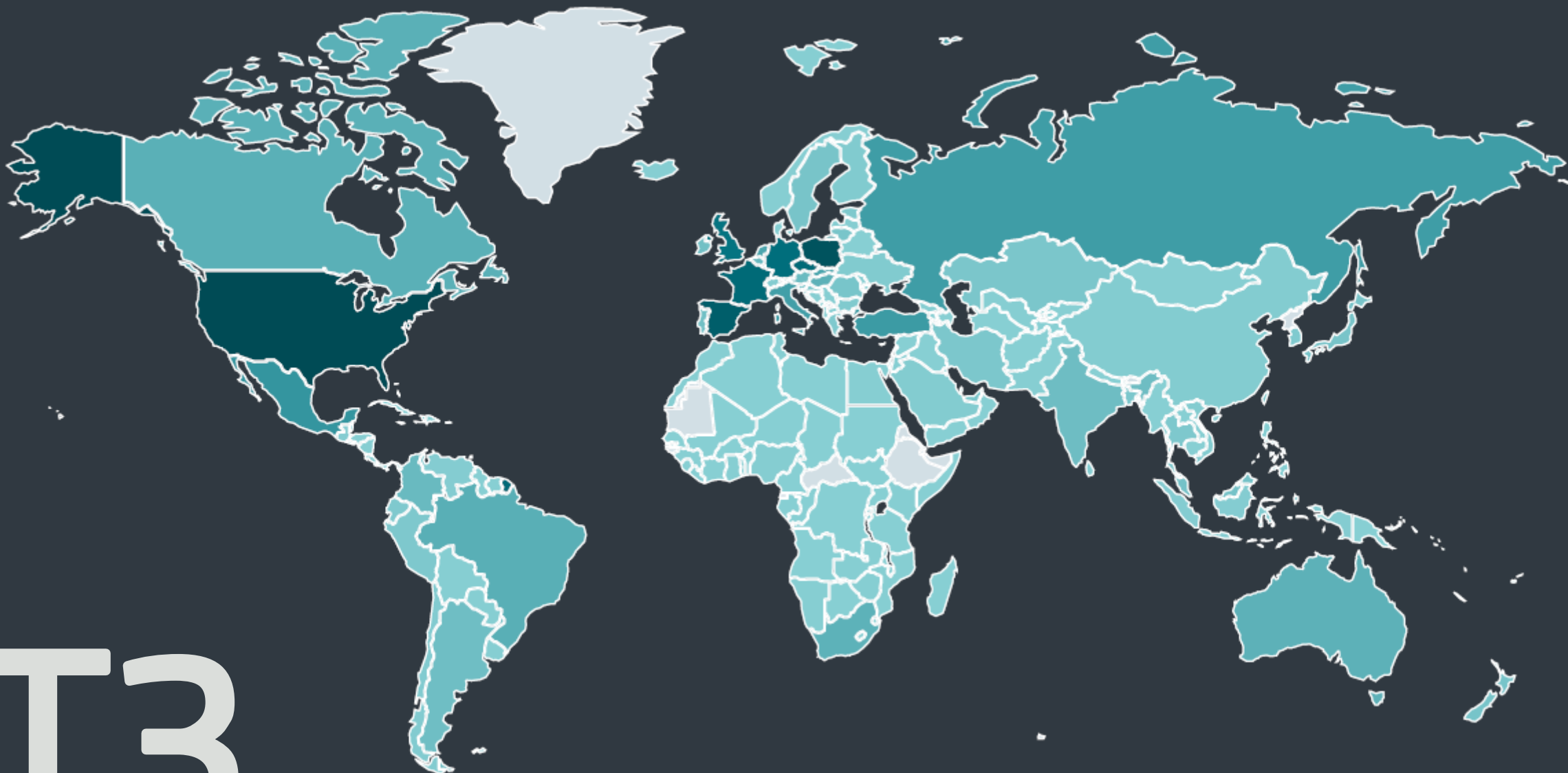


T3

Cieľové IP adresy (RDP)

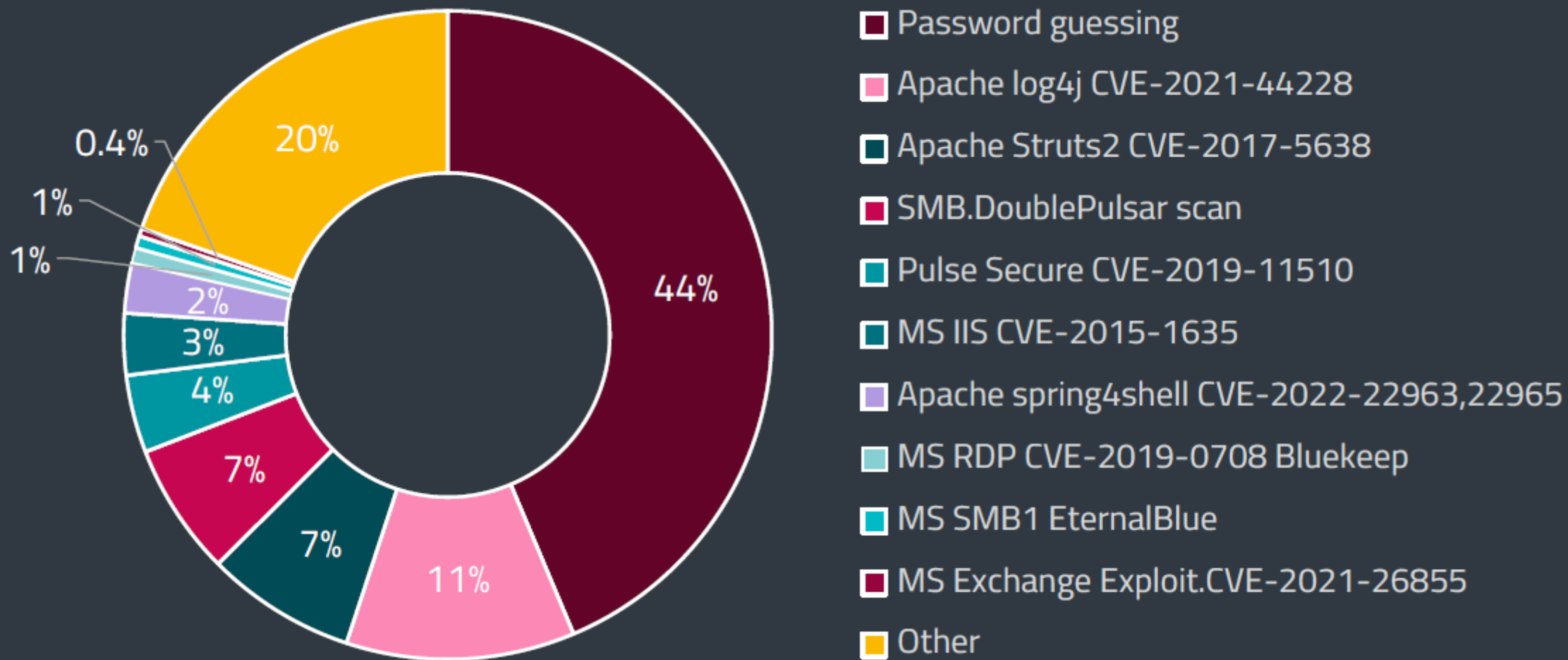
0.0%

11.1%



T3

Log4Shell je stále druhým najčastejšie zneužívaným útočným vektorom



T3

Externé sieťové vektory prieniku podľa unikátnych klientov v T3 2022

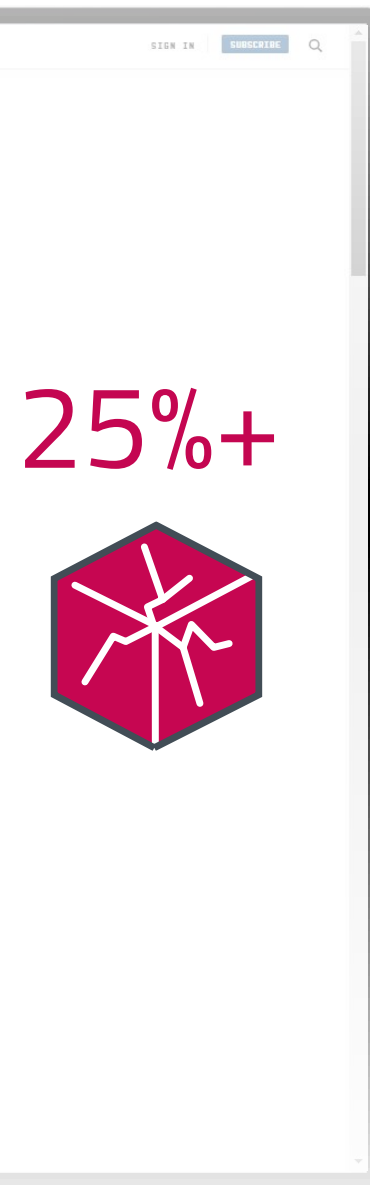
and hire a dedicated staff to expand the security support it can offer to open-source projects to catch bugs before they ship in code and respond to incidents when necessary.

“In a short period of time, two weeks, we had fixes out, which is great,” Nalley says. “In some ways, this is not a new situation to us, and I would love to say we dealt with it perfectly. But the reality is, even at the Apache Software Foundation, this highlighted what a responsibility we have to everyone who consumes our software.”

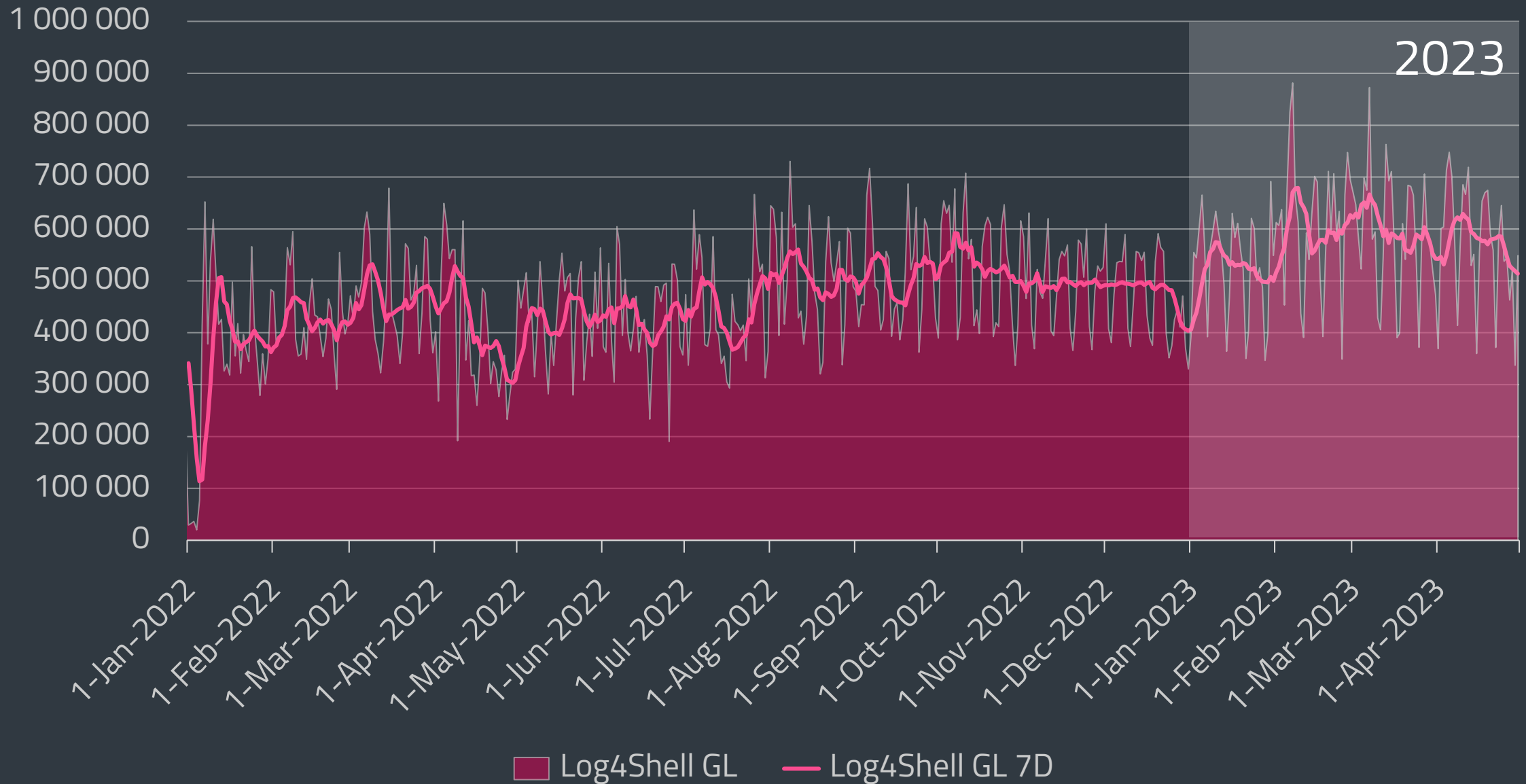
Going forward, the more concerning aspect of the situation is that, even a year later, roughly a quarter or more of the Log4j downloads from the Apache repository Maven Central and other repository servers are still full of vulnerable versions of Log4j. In other words, software developers are still actively maintaining systems running vulnerable versions of the utility or even building new software that is vulnerable.

“The reality is that the majority of the time when people are choosing a vulnerable open-source software component, there's already a fix available,” says Brian Fox, cofounder and chief technology officer of the software supply-chain firm Sonatype, which operates Maven Central and is also a third-party Apache repository provider. “I've been around for a long time, and I'm jaded, but that really is shocking. And the only explanation is that people really do not understand what's inside their software.”

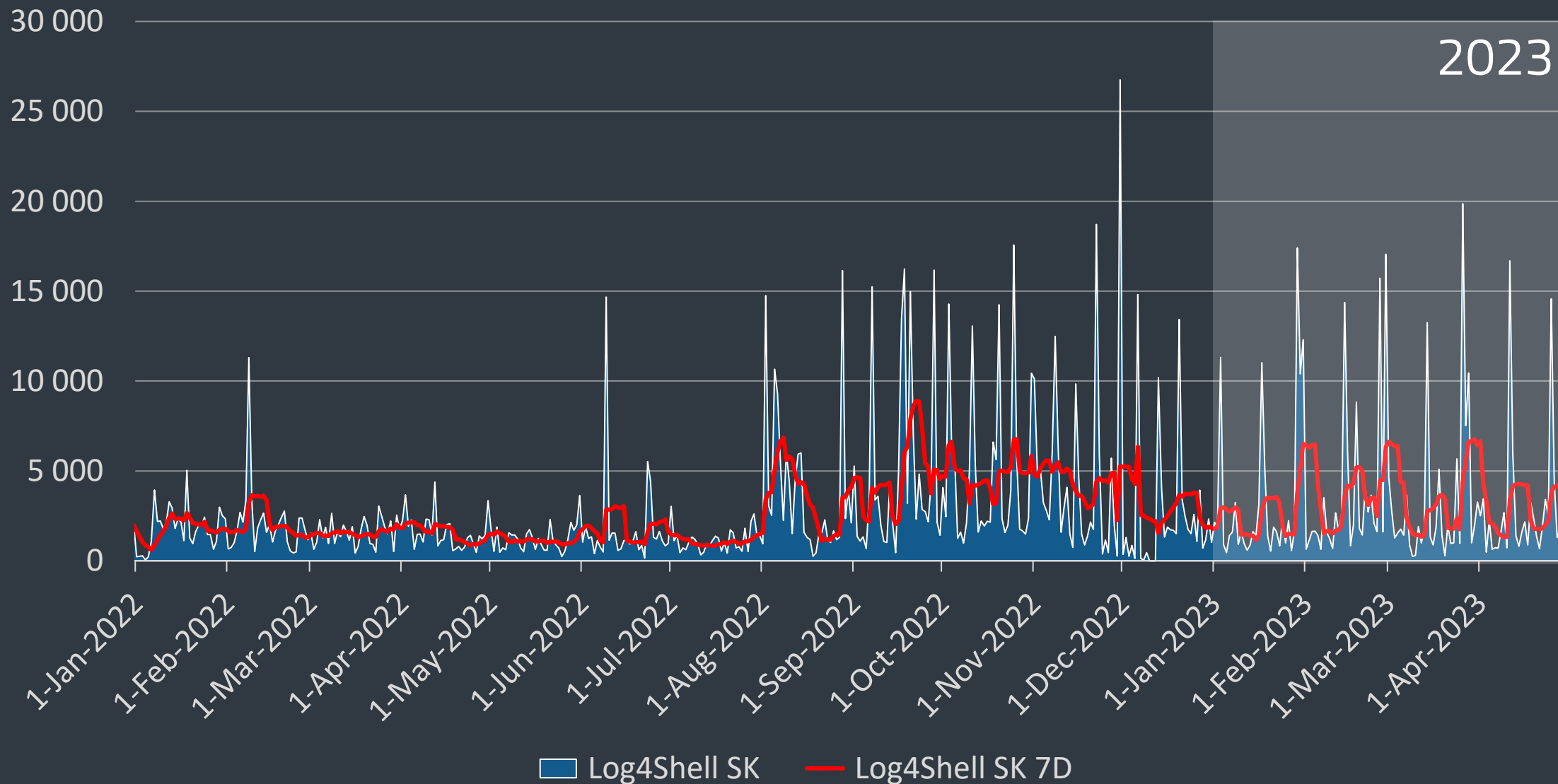
Fox says that after the initial scramble to address Log4Shell, version downloads in



Pokusy o zneužitie zraniteľnosti Log4Shell (globálne)



Pokusy o zneužitie zraniteľnosti Log4Shell (Slovensko)



Award-winning news, views, and insight from the ESET security community



Research



A lookback under the TA410 umbrella: Its cyberespionage TTPs and activity

ESET researchers reveal a detailed profile of TA410: we believe this cyberespionage umbrella group consists of three different teams using different toolsets, including a new version of the FlowCloud espionage backdoor discovered by ESET.

Alexandre Côté Cyr and Matthieu Faou 27 Apr 2022 - 03:00PM



When "secure" isn't secure at all: High-impact UEFI vulnerabilities discovered in Lenovo consumer laptops

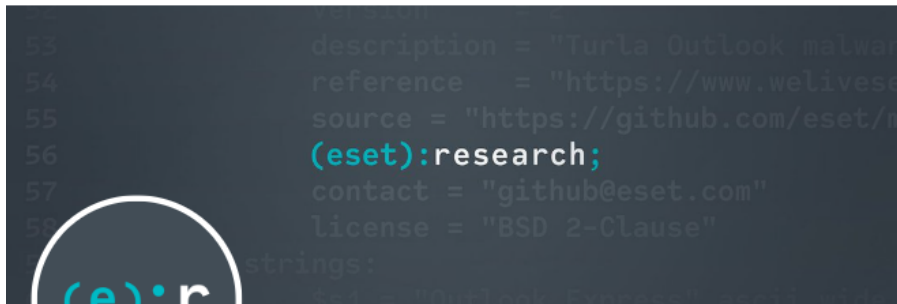
ESET researchers discover multiple vulnerabilities in various Lenovo laptop models that allow an attacker with admin privileges to expose the user to firmware-level malware.

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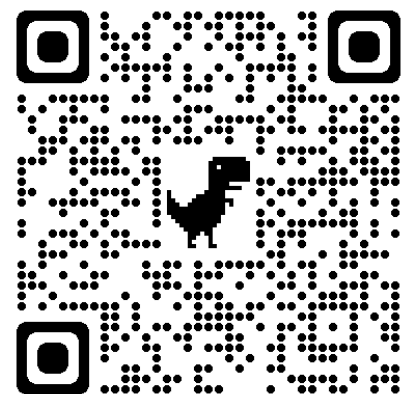
Followed by Daniela Skripkova, Jen Easterly, and 132 others you follow

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ESET research @ESETresearch · May 25 #ESETresearch's very own @HrckaVladislav is going to present „Under the hood of Wslink's multilayered virtual machine“ at @reconmt! He will describe the features of the advanced VM and explain the semiautomated approach to over

ESET research @ESETresearch · May 25 He will provide insights into the process of of undocumented VM and describe the app protection, extending existing deobfuscation execution to determine the meaning of the

ESET research @ESETresearch · May 25 @HrckaVladislav will explain step-by-step h without any previous knowledge. deobfusc





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