cisco SECURE

A jó, a rossz és az unknown





Top initial access vectors

According to Talos Incident Response data

Exploits in public-facing applications and compromised credentials/valid accounts accounted for half of initial access vectors in 2023.

Phishing rounds out the top 3 of known initial access vectors.

28%	23%	23%	19%	6%
Exploit vulnerability in public-facing application	Unknown	Compromised credentials on valid accounts	Phishing	Drive-by compromise

Note: Initial access vector is often hard to determine due to a variety of reasons — including insufficient logging or lack of visibility into the affected environment — resulting in "unknown" being highly represented.



Goals may be different, but methodologies are similar



Cyber crime

- Financially motivated
- Phishing
- Big-game hunting
- Social engineering

Different motivations



State-sponsored

- Data and espionage
- Havoc and chaos
- Supply chain attacks
- Partner abuse



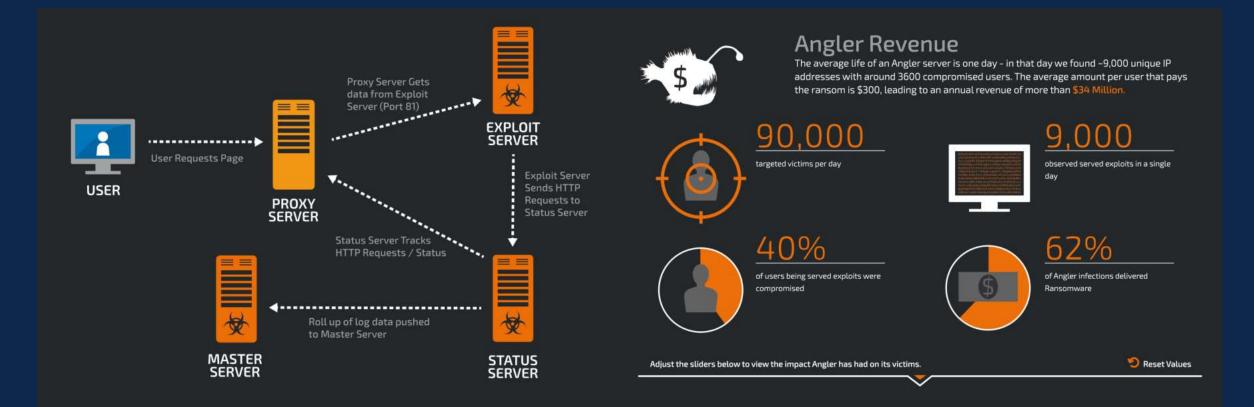
A vált\$ágdíj az új drog

- 1.7 millió ransomware támadást indítanak naponta (ez 19 másodpercenként egy)
- 2022 első fele: köze 2023.7 millió ransomware támadás
- Előrejelzés 2031-re: \$265 milliárd költség évente





Cyber Corleone



Kibertámadás Zrt.

	Gal Locky Decryptor Page × +				
Cerber Decryptor x +	S 🌢 - 🔄 mphtadhci5mrdlju.onion/905803	I9FT9G4DDR C	Q. Search		
S 🖉 - 🔄 🖲 ffoqr3ug7m726zou.onion/AD9D-F373-FFE0-008C-1C97/language	Languages: English				
CERBER DECRYPTOR					
at	Locky Decryptor™				
	We present a special software - Lock which allows to decrypt and retur	vy Decryptor" -			
Wähle deine Sprache				C Q Search	=
	How to buy Locky Decr	Your comments		Our Answer	
	1 You can make a payment with BitCoi	Leave a comment here with your "Computer name" to receive		Our Answer	
English Deutsch	2 You should register BitCoin wallet:	decryption software.			
	Simplest online wallet or Some other	Server all the server and the		Test decryption for PC, check help, http://s000.tinyu /index.php?file_id=727012669578	pload.com
	3 Purchasing Bitcoins, although it's not 22.03.2016 18:40 Experimentation gravitational gravitationa gravitational gravitational gravitational gravitational gravitatio	-			
Français 中文 🥚	Here are our recommendations:			Sorry for delay, here you are: allKeys http://s000.tinyupload.com /index.php?file_id=50019761328	n
	coincafe.com R				
	locabitcoins.com S cex.io B				
Português Polski	btduick.co B				
	howtobuybitcoins.info A cashintocoins.com B		Leave a c	comment	
العربية 🗾 Türkçe	conjar.com C anxpro.com bttylcous.com				
	4 Send 3.00 BTC to Btcoin address:				
	14XCdwqDAnCmt4KK5EWVCxgb];				
	Note: Payment pending up to 30 m				
	Date 4				
					10
	5 Refresh the page and download decr Y	our Email:			
		Submit Comment			

Kibertámadás Zrt. - Conti group

- Képzési lehetőségek
- Jutalék a tárgyaló kollégáknak a befizetések után
- Teljesítményértékelések
- Ajánló program
- Hónap dolgozója díj
- Meglepetés a pozícióban

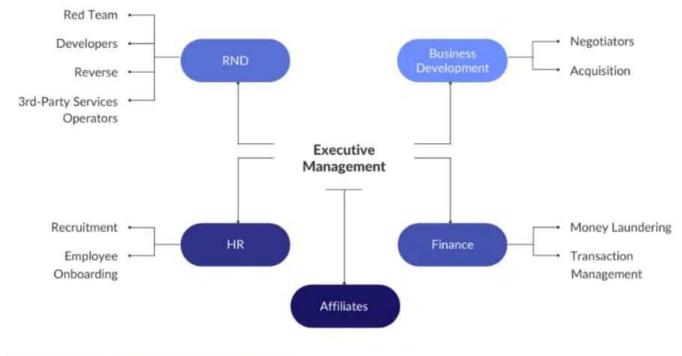


Figure 8: Conti's organization chart concluded from the leaks

Proliferation of Data Leak Sites

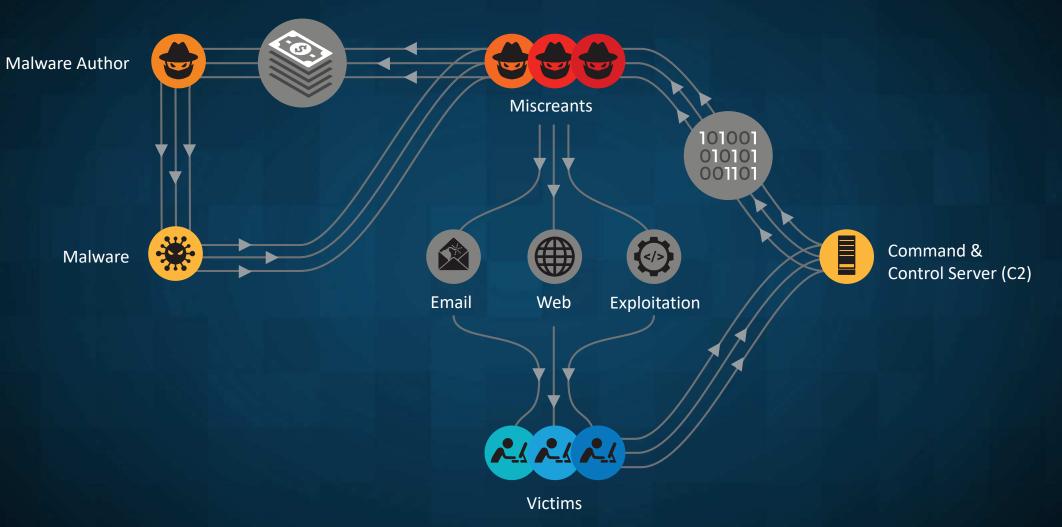
Happy Blog Auction (see) Blog watch Search Leaked d	ata from our victims.	>_CL0P^ LEAKS	Darkside	E
	Sekhmet Leaks.		- More then 200 G	B sensitive data. Pinned 08:08:2020
HACKED AND LEAKED DATA !	hit by Sekhmet Exted by Sekhmet on June 29: 2020 Views 18789 hit by Sekhmet Exted by Sekhmet on June 28: 2020 Views 18566	UPDATES FILES AND CUSTOMERS DATA PART1 PUBLI FILES AND CUSTOMERS DATA PART2 PUBLI FILES AND CUSTOMERS DATA PART PUBLISHED FILES AND CUSTOMERS DATA PART3 PUB FILES AND CUSTOMERS DATA PART3 PUB	ISHED • Human resources • Payroll • Administration • Business plan • Commercial • And more other	Read all
	Home Page of	f Ragnar_Locker Leaks site	in Main 💵 Full dump 📮 Contact Us	
NORE	RA	Clients and the data, financia and more. Now we woul and self-servi	n collects and analyzes information about our eir companies. We specialize in customer privacy I information, databases, credit card information Id like to talk about the cost of non-collaboration ice data recovery. s are not the main problem. Companies cannot	
Publicando Visso / Becret data Inst. open inks	a moved wall of shame		e risk of information leakage, especially private	
	The second		information lead to losses for the company, fines And don't forget that information can fall into the petitors!	



Taktikák, technikák... és trükkök

	ATT&CK Matrix for				
Reconnaissance Resource Initial Access Execution Development		n Credential Discovery Access Constructions	Movement	mand and Exfiltration Control	
	Pollow 421,451 likes 4w 421,451 likes 4w britneyspears 4w gabylyman 4mdeblasio olya_1296 BaylKpacorxa) victoriamiller_official +2 +2 +2 andreehelena @azumpano she looks like old Britl 0?1 asmith2155 #2hot make loved to her, upss #Hot #X meela_universe Still hot! liyabraun 4 **	Parting Barbon Parting	Image: Description Image: Description Image: Description Image: Description Image: Description Image: Desc	Strage States State	
	Imonn.c Saatlerce sikmek isterdim thenotoriouscma lconic @cheriemadelein shylasvsyoga @carlos_misan_tropo tion Log in to like or comment. ooo Authentication Process (g) Valid Accounts (4) I	Request Generation Generation Group Policy Discovery Network Network Service Discovery OS Credential Dumping (8) I Network Share Discovery Network Share Discovery Steal Application Network Sniffing	Network Shared Drive Data from Removable Media Data Staged (2) II Proxy	Account eling (4) II ote Access	

Commodity Malware Lifecycle



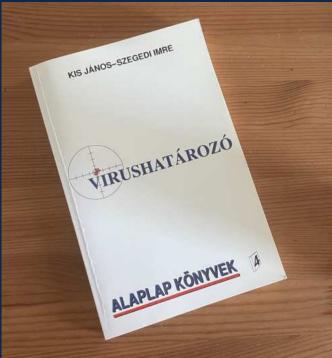


Sziszüphosz szignatúrákat írna

• 1992

• 2022

1263 (534 + 729) vírus SZUMMA



1.4 M új malware minta naponta









- How is it abused by attackers?
- Common Examples
 - PowerShell
 - WinRM/PS Remoting
 - VBScript
 - JScript
 - WMI



Supply chain, cyberweapons, etc.

XZ-UTILS, CVSS: 10/10

- Linux, SSH backdoor, CVE-2024-3094, opensource project
- <u>https://cert.europa.eu/publications/security-</u> advisories/2024-032/



XZ Outbreak (CVE-2024-3094) XZ Utils is a collection of open-source tools and libraries for the XZ compression format, that are used for high compression ratios with support for multiple compression algorithms, notably LZMA2 On Friday 29th of March, Andres Freund (principal software engineer at Microsoft) emailed osssecurity informing the community of the discovery of a backdoor in xz/libizma version 5.6.0 and 5.6.1 Github Activity Summary (user: JiaT75) R opened in occ-fuzz to Obfuscated/encrypted stages binary backdoo disable ituna for fuzzing hidden in two test files: JinT75's first many alds. Allegedly to mask the tests/files/bod-3-corrupt_lamo2.cz to the XZ repo malicipus changes. tests/files/good-longe_compressed long 2022-02-06 2023-07-08 2024-03-09 0---0---0. 2021 2024-02-16 2023-06-28 xz/libzma User Jip Tan Lint751 Halicious "build-to-host ms" file addee Potential infrastructure testing rentes his Github Account v5.6.0 & v5.6.1 to aitignane, later incorporated to the ma: "Add ifund implementat package release to creak fast.c." Packaged in the final releases +tests/files/bad-3-corrupt_lzma2.xz Substitution to uncorrupt The MY macro is executed during the build (630) XZ malformed xz file process and runs the malicious code below. 0x05 (\t) are replaced with 0x20 "Uncorrupted" Ox10 (whitespace) are replaced with Ox09 bad-3-corrupt_lzma2.xz 0x2d (-) are replaced with 0x5f Ox5f () are replaced with 0x2d Stage 1 - Bash File tests/files/good-large_compressed.lzma L Decompress the file with x3 -dc Bytes in comment: 34 FR SA F7 25 68 6A 50 v560 2. Remove junk data from the file using multiple head tool calls Custom substitution (byte value mapping) 3. Portion of the file is discorded (contains the binary backdoor Bytes in comment: 25 55 \$4 67 24 D4 08 17 4 Use sustain substitution sigher to decipher the data v5.61 Check if script running on Linus Custom substitution (byte value mapping) Bash script 5 Deciphered data is decompressed using k1 -F raw --lamal -dc Stage 2 - Bash File v5.6.1 Extension Mechanism Ont 5.6.0 Backdoor extraction L Search Files use area shroof in tests/files/ fo cionatures An .o file extracted a integrated into compilation/linking m h 10 Part 10 11 11 11 11 11 I.Extract a decipher tests /fies/good-large_compresse B. FIVLAN, "SLATE" 7. Manipulate output with LC. ALL+C sed *sALU/White 2. If Found a with the signatures were 3. Decrypt using AWR script (AC+-like) L however it highlights the a save first offset + 7 as \$start 4. Decompress with vs -dc --single-stream work's potential modularity b. Save second file's offset as Send 5 Smort Insistent stored as Utizen: In-credit fasts 5.Next Steps a Merge found segments E PROGGER izma_la-crc64-fast.o is then added b. Decipher with custom byte mappin the compilation/linking process THOMAS ROCCIA « Decompress » execute dota



NIS2

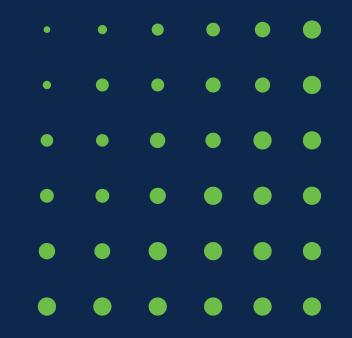
Essential and important entities should adopt a wide range of basic cyber hygiene practices, such as

- zero-trust principles,
- software updates,
- device configuration,
- network segmentation,
- identity and access management
- user awareness

.

. . .

Zero trust



The Foundations of Zero Trust in Your Workplace

Visibility

Segmentation

Grant the right level of network access to users across domains Shrink zones of trust and grant access based on least privilege

Automate containment of infected endpoints and revoke network access

Containment







Interview with a LockBit ransomware operator

By Azim Khodjibaev, Dmytro Korzhevin and Kendall McKay



If you think technology can solve your security problems, then you don't understand the problems and you don't understand the technology.

Bruce Schneier

CISCO The bridge to possible