



Tempest

ACADEMY

Conference
2023

Reconhecendo sinais

O que esperar das ameaças
cibernéticas do futuro



Carlos Cabral

- / Infosec Old School
- / Na Tempest desde 2016 (Intel > ARP > Intel > SaaS)
- / Podcaster
- / Toco em bloco de carnaval
- / Diretor na Mente Binária
- / Sociólogo
- / O que gosto mesmo é de estudar Nation-State Actors



**MENTE
BINÁRIA**



A hand holding a pen is shown on the left side of the image, with the word "FUTURO" written in large, bold, white capital letters across the center. The background is a light grey color with a large, dark grey, curved shape on the right side. The word "FUTURO" is partially obscured by the dark grey shape.

FUTURO

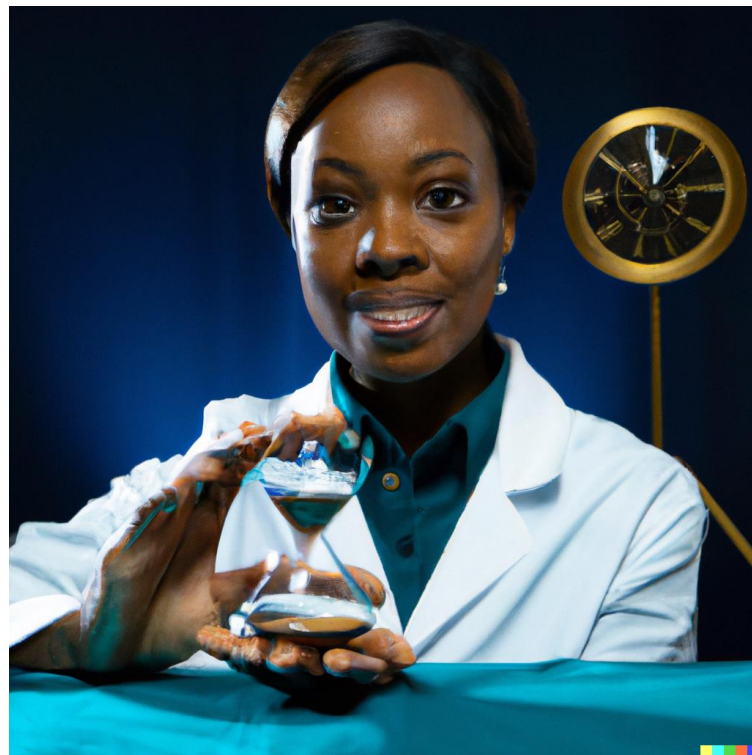






Futurologia

Ferramentas para identificar
sinais e mapear tendências





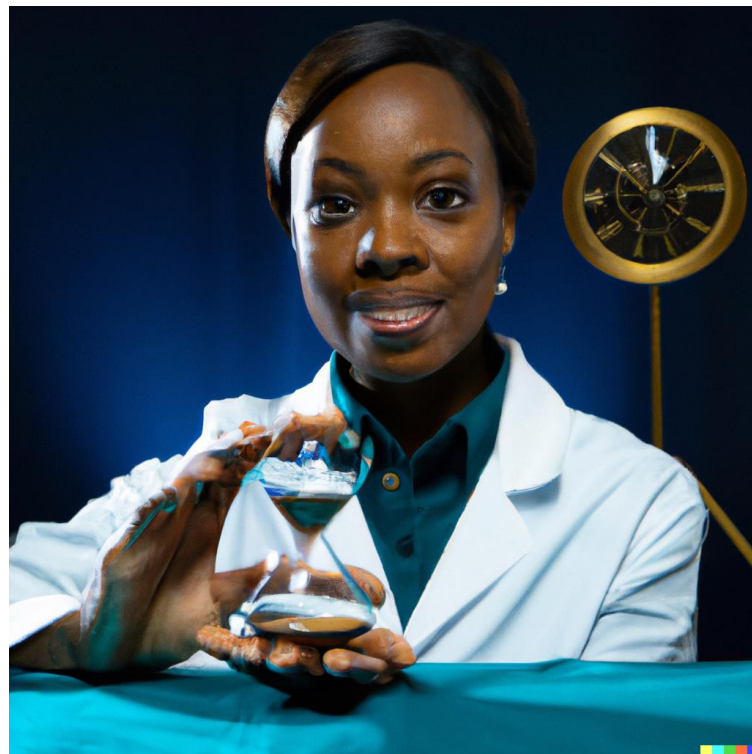
Polícia Le

AGORA

Futurologia

Ferramentas para identificar
sinais e mapear tendências

PESTLE – **P**olitical, **E**conomic,
Social, **T**echnological, **L**egal,
Environmental



PESTLE



Ampla



Média



Profunda

PESTLE



Ampla



Média



Profunda

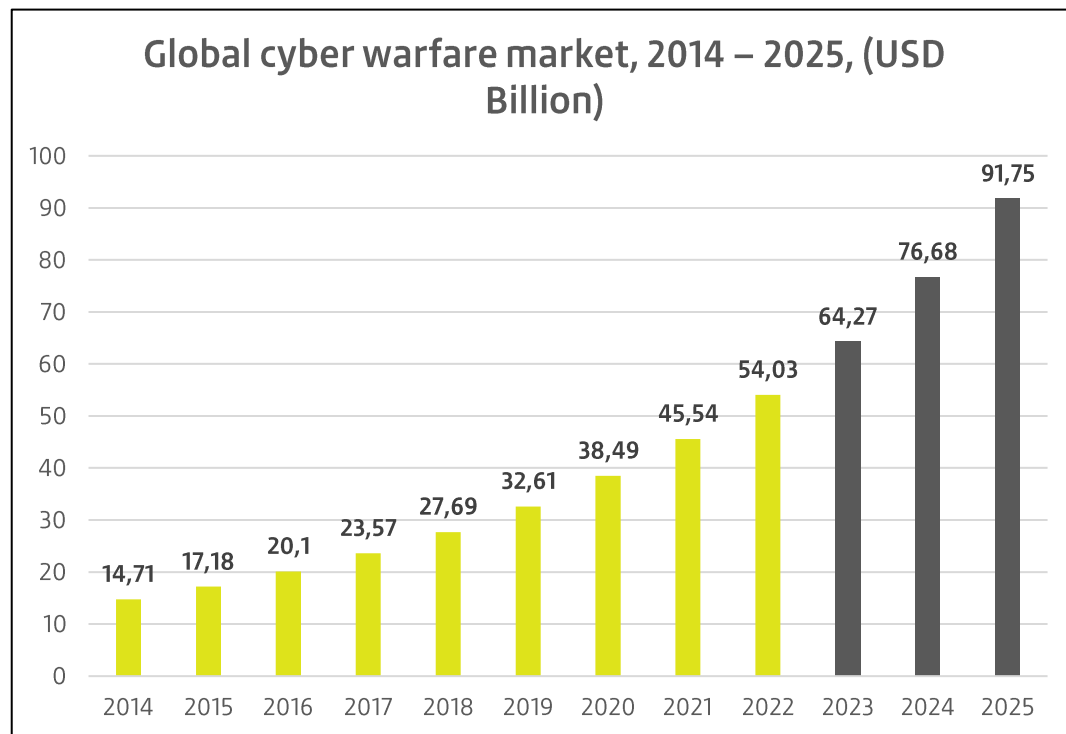
PESTLE - Politico

- / Instabilidade política
- / Descrédito no multilateralismo
- / 2 Guerras muito relevante para o futuro de diversos atores



PESTLE - Politico

- / Instabilidade política
- / Descrédito no multilateralismo
- / 2 Guerras muito relevante para o futuro de diversos atores
- / Uso contundente de cyber para atingir objetivos políticos



Fonte: Grand View Research

PESTLE - Econômico

- / Choque na cadeia de suprimentos global (Pandemia e guerra na Ucrânia)
- / Aumento nos juros (fim da era das piscinas de bolinhas)

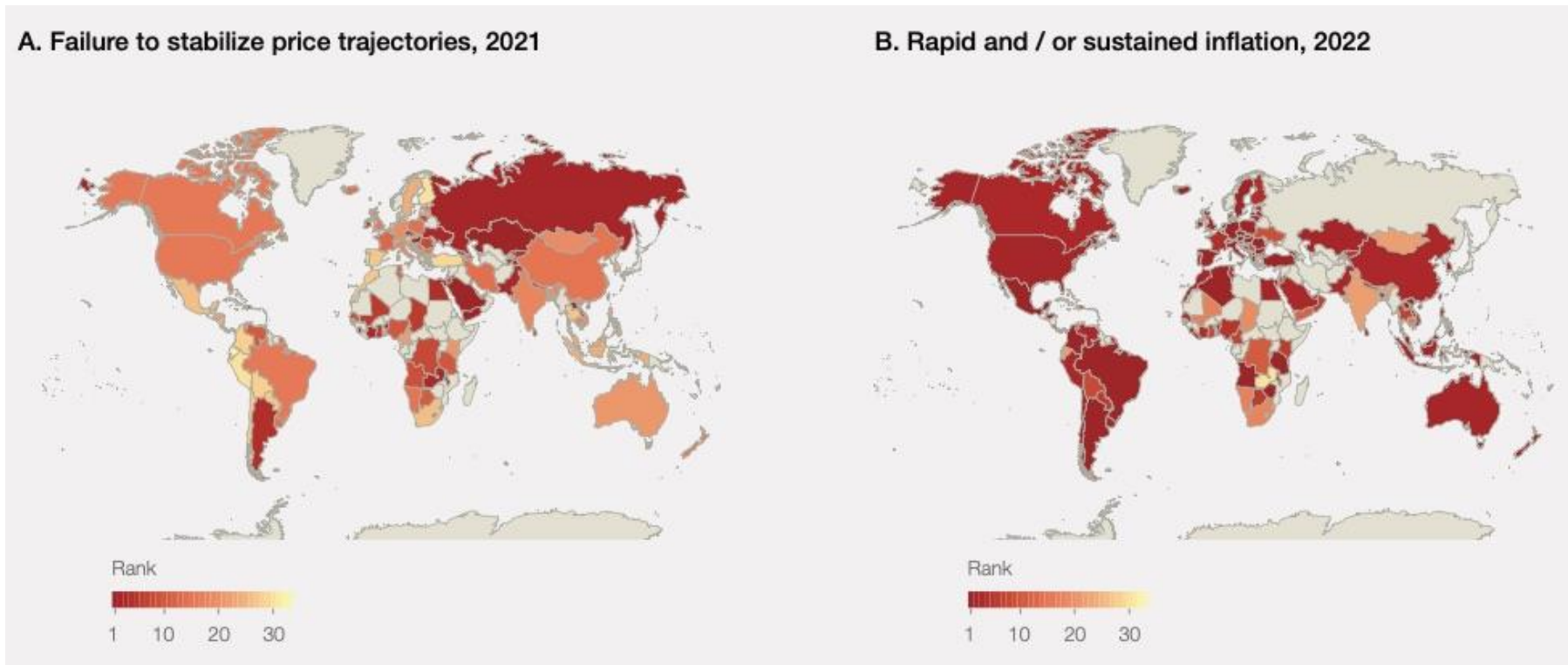


The screenshot shows a news article from the website 'seudinheiro'. The page features a navigation bar with 'ÚLTIMAS NOTÍCIAS', 'BOLSA HOJE', 'BALANÇOS 3T23', 'COLUNISTAS', 'REPORTAGENS ESPECIAIS', and 'A DINHEIRO'. Below the navigation bar, there are market data for Dólar (4.8593, -0.0032, -0.07%), Bitcoin (RS) (181752.77, -3444.85, -1.86%), and Petrc TV s. The article is categorized under 'CONTEÚDO EMPIRICUS' and has the headline: 'Esqueça startups arriscadas com piscina de bolinha no escritório: “método 3P” seleciona com diligência as ações microcaps que podem explodir a qualquer momento'. The sub-headline reads: 'Vice-Presidente financeiro quebra o silêncio sobre contradição do mercado e aponta direção confiável para investidores'. The article is dated 16 de setembro de 2023 and was updated at 12:00. The image below the text shows a close-up of colorful, translucent gumballs in various colors like red, yellow, green, and blue.

PESTLE - Econômico

A. Failure to stabilize price trajectories, 2021

B. Rapid and / or sustained inflation, 2022



PESTLE - Econômico

- / Choque na cadeia de suprimentos global (Pandemia e guerra na Ucrânia)
- / Aumento nos juros (fim da era das piscinas de bolinhas)
- / Economia da precisão
- / Tecnologia exacerba as desigualdades. Soberania (Evgeny Morozov).



PESTLE - Social

- / Mais da metade da população global vive com menos de US\$ 6,85 por dia (~ R\$ 990,00 / Mês)*
- / Corrosão na confiança
- / Vantagem das plataformas na polarização
- / Uso de Cyber para erodir a coesão social

* Banco Mundial



PESTLE - Social

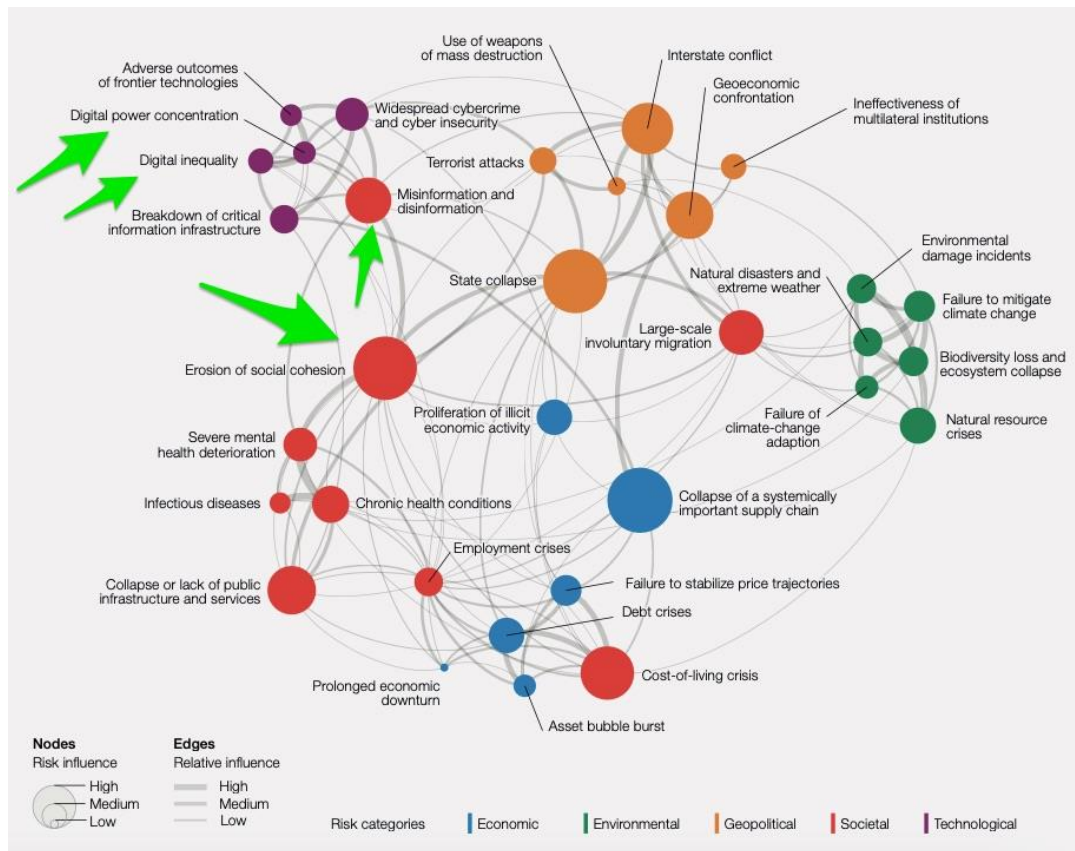
/ Mais da metade da população global vive com menos de US\$ 6,85 por dia (~ R\$ 990,00 / Mês)*

/ Corrosão na confiança

/ Vantagem das plataformas na polarização

/ Uso de Cyber para erodir a coesão social

* Banco Mundial



PESTLE - Tecnológico

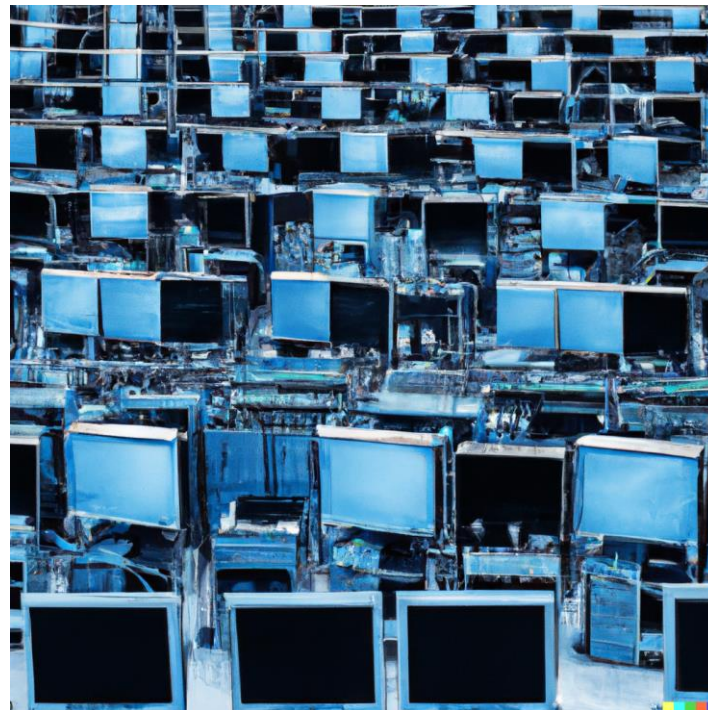
/ Sensores em tudo (economia da precisão)

/ Coleta de dados

/ IA

/ Sistemas autônomos

/ Mundo novo que floresce. Pivô
para quase tudo no futuro.



PESTLE - Legal

- / Primeiro o faroeste, depois o xerife
- / Regulamentação para IA e Plataformas
- / Fim da inocência

THE WHITE HOUSE

NOVEMBER 01, 2023

FACT SHEET: Vice President Harris Announces New U.S. Initiatives to Advance the Safe and Responsible Use of Artificial Intelligence

BRIEFING ROOM | STATEMENTS AND RELEASES

As part of her visit to the United Kingdom to deliver a major policy speech on Artificial Intelligence (AI) and attend the Global Summit on AI Safety, Vice President Kamala Harris is announcing a series of new U.S. initiatives to advance the safe and responsible use of AI. These bold actions demonstrate U.S. leadership on AI and build upon the historic Executive Order signed by President Biden on October 30.

PESTLE – Environmental

- / Atividade humana, principalmente através da queima de combustíveis fósseis, aqueceu o planeta em 1.1°C.*
- / Os que menos colaboraram são os que mais sofrem.*
- / Temos que reduzir a emissão de gases de efeito estufa em 43% em 2023, 60% em 2035, 69% em 2040 e 84% em 2050*

*Intergovernmental Panel on Climate Change (IPCC)

Elevador Lacerda, Salvador

Aumento de 1,5°C

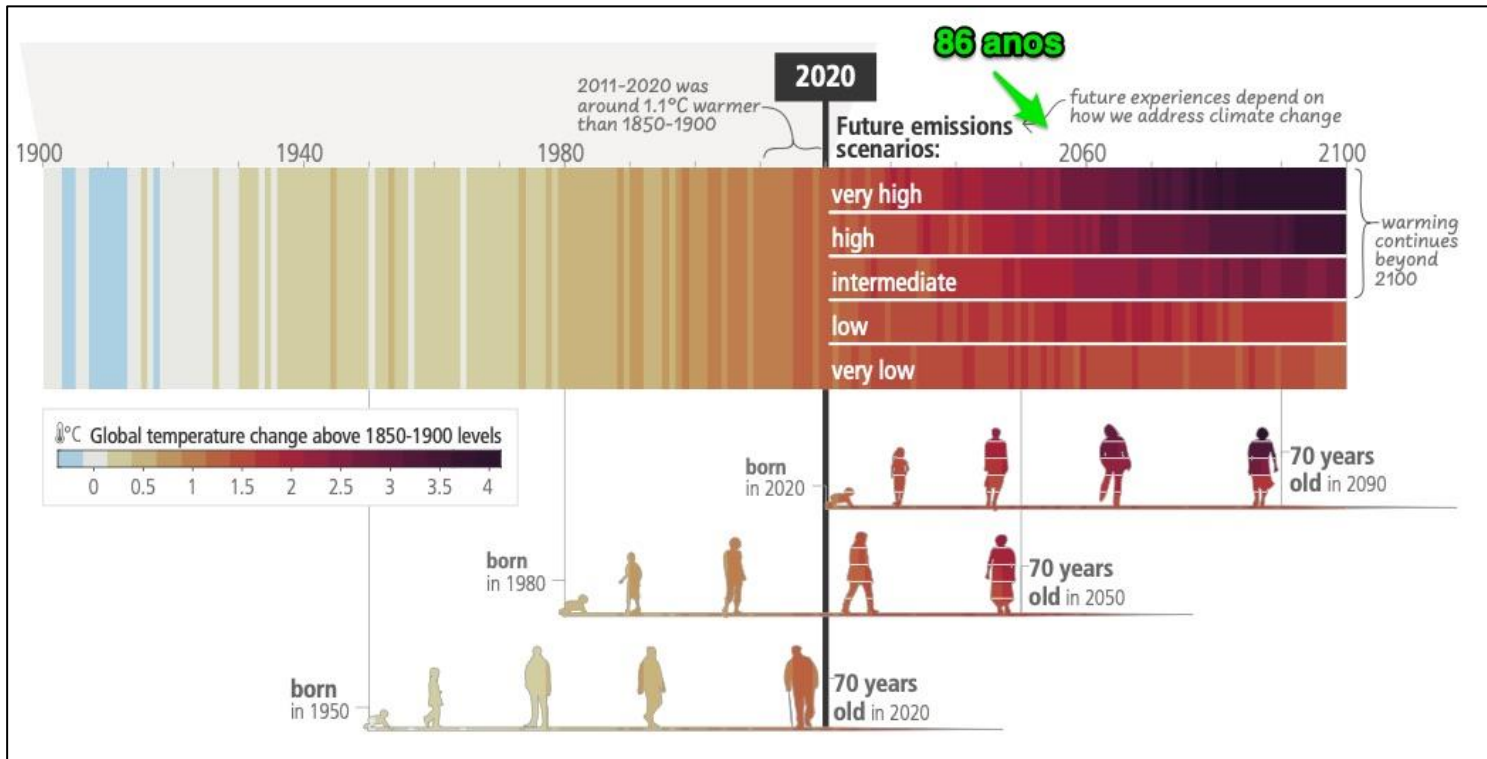
Aumento de 3°C



Fonte: Climate Central

BBC

PESTLE – Environmental



Fonte: Intergovernmental Panel on Climate Change (IPCC)



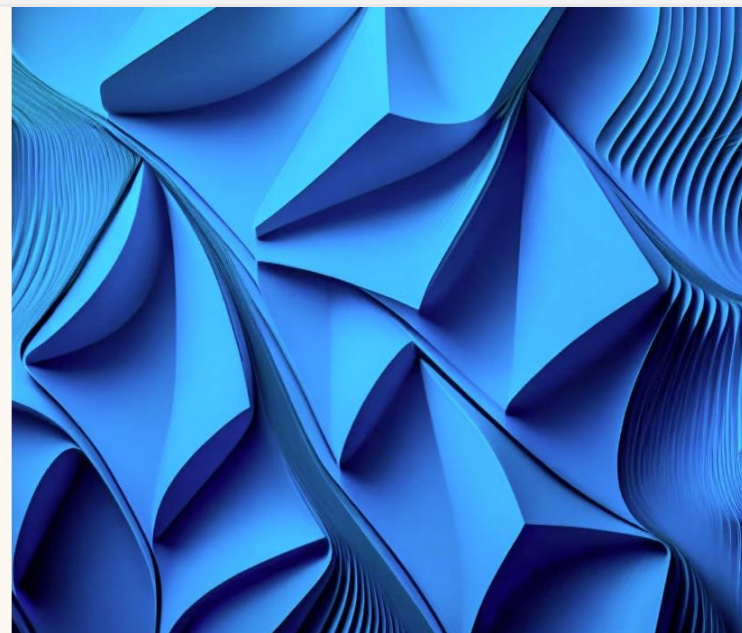
AMEAÇAS & CIBERNÉTICAS



Microsoft Digital Defense Report

Building and improving
cyber resilience

October 2023
Microsoft Threat Intelligence



Ransomware

Adversário exige resgate para reaver os dados ou não publicá-los

Engenharia Social

Golpes e ataques contra as pessoas

Ameaças contra disponibilidade – Negação de Serviço

Exaurir a capacidade dos sistemas

Manipulação de Informação

Fake News e outros métodos de interferência na opinião pública

Malware

Toda “fauna e flora” de código malicioso

Ameaças contra dados

Violação, destruição ou vazamento

Ameaças contra disponibilidade - Internet

Interrupções, apagões, desligamentos ou censura da Internet.

Ataques de Supply Chain

Ataques contra empresas por meio de seus fornecedores

Ransomware

Nos primórdios



/ Perda dos arquivos



Recycle Bin



Acrobat Reader DC



@WanaDe...



@WanaDe...

Wana Decrypt0r 2.0
English

Ooops, your files have been encrypted!

Payment will be raised on
5/22/2017 12:06:15

Time Left
02:23:59:47

What Happened to My Computer?

Your important files are encrypted. Many of your documents, photos, videos, databases and other files are no longer accessible because they have been encrypted. Maybe you are busy looking for a way to recover your files, but do not waste your time. Nobody can recover your files without our decryption service.

Can I Recover My Files?

Sure. We guarantee that you can recover all your files safely and easily. But you have not so enough time. You can decrypt some of your files for free. Try now by clicking <Decrypt>. But if you want to decrypt all your files, you need to pay. You only have 3 days to submit the payment. After that the price will be doubled. Also, if you don't pay in 7 days, you won't be able to recover your files forever. We will have free events for users who are so poor that they couldn't pay in 6 months.

How Do I Pay?

Payment is accepted in Bitcoin only. For more information, click <About bitcoin>. Please check the current price of Bitcoin and buy some bitcoins. For more information, click <How to buy bitcoins>. And send the correct amount to the address specified in this window. After your payment, click <Check Payment>. Best time to check: 9:00am - 11:00am GMT from Monday to Friday.

Your files will be lost on
5/26/2017 12:06:15

Time Left
06:23:59:47

Send \$300 worth of bitcoin to this address:

115p7UMMngoJ1pMvKpHjCrdFJNXj6LrLn

Copy

[About bitcoin](#)

[How to buy bitcoins?](#)

[Contact Us](#)

Check Payment

Decrypt

Ooops, yo

If you see this t
when your antivir
from your comp

If you need your

Please find an ap
ny folder or res

Run and follow th

r important files

xt, but don't see the
s removed the decrypt
ter.

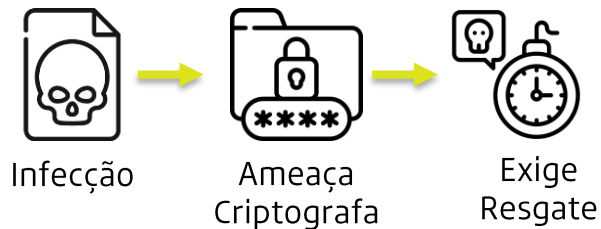
files you have to run

lication file named "
ore from the antiviru

instructions!

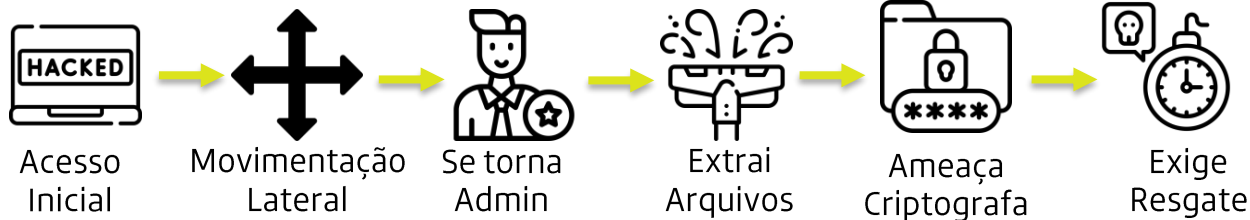
Ransomware

Nos primórdios



/ Perda dos arquivos

Hoje



/ Perda dos arquivos
 / Legais
 / Imagem
 / ...



LEAKED DATA



CONDITIONS FOR PARTNERS AND CONTACTS >



12D 19H 2M 48 S

MORE →



3D 14H 57M 48 S

MORE →



3D 14H 35M 48 S

MORE →



3D 14H 29M 48 S



3D 1H 15M 48 S



PUBLISHED FILES

Ransomware



Dev do Phishing



Dev do Ransomware



Lavador de \$



Dev de Stealer



Host da quadrilha



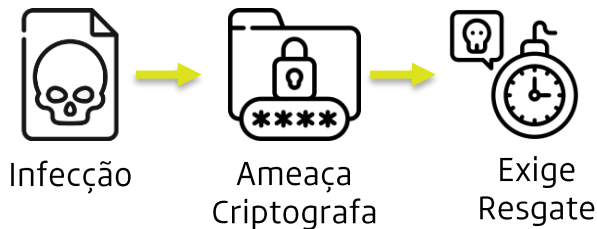
Admin do Forum



Initial Access Broker

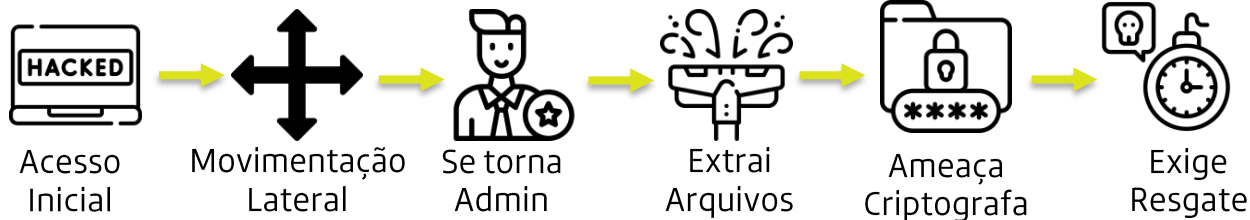
Ransomware

Nos primórdios



/ Perda dos arquivos

Hoje



/ Perda dos arquivos
/ Legais
/ Imagem
/ ...

Recentemente



/ Perda dos arquivos
/ Legais
/ Imagem
/ ...

AA



saude.gov.br



**LAPSUS\$
GROUP**

VOCÊ SOFREU UM RANSOMWARE

**OS DADOS INTERNOS DOS SISTEMAS FORAM
COPIADOS E EXCLUÍDOS. 50 TB DE DADOS ESTÁ
EM NOSSAS MÃOS.**

NOS CONTATE CASO QUEIRAM O RETORNO DOS DADOS.

TELEGRAM: <https://t.me/minsaudebr>

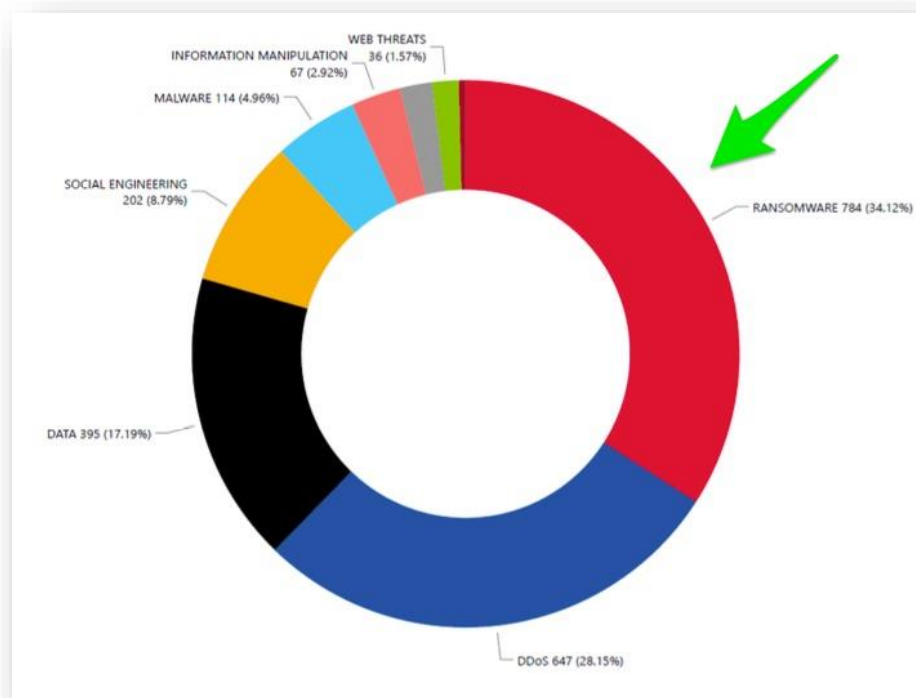
E-MAIL: saudegroup@ctemplar.com

Ransomware

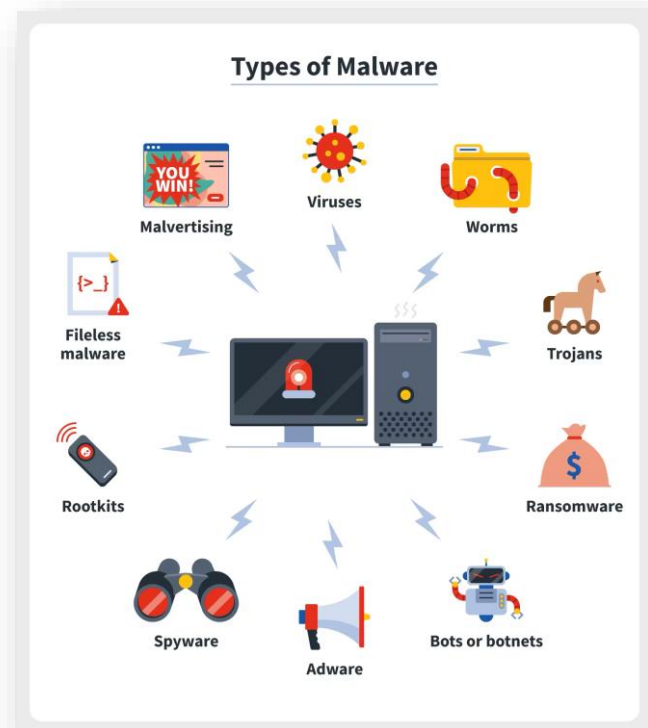
/ Principal volume de ataques entre julho / 22 e junho / 23 [ENISA]

/ Mais de 200% de aumento entre 22 e 23 [Microsoft]

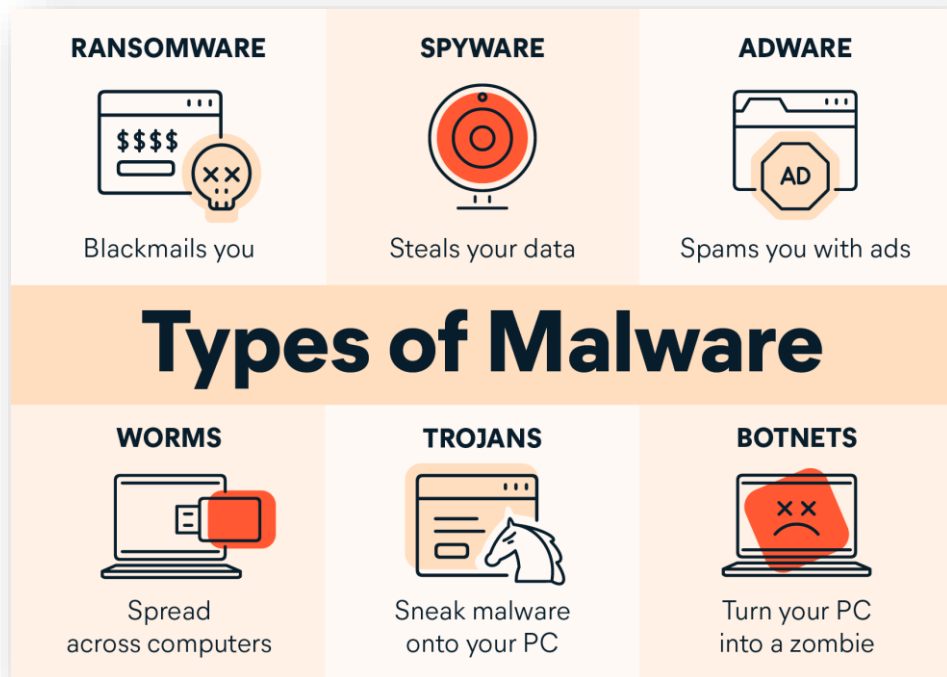
/ 80% ~ 90% dos ataques, por meio de tecnologias não gerenciadas [Microsoft]



Malware



Fonte: Norton



Fonte: Avast

Malware - Stealers

- / Stealers se tornaram vetor de crescimento do cibercrime [ENISA]
- / Em sua maioria, observam o navegador
- / Roubam senhas, dados bancários e podem manipular o “copia e cola”
- / Vendem dados a outras quadrilhas ou usam em outros ataques

Binance NFT Free Auto Bot | Bot for instant purchase Mystery Box NFT

79 views · 1 month ago

Andrés Jiménez

—Tags— binance, nft, bot, buy, mysterybox, box, busd, autobuy, cryptobot, binance, bitcoin, crypto trading bot, cryptocurrency, ...

Binance NFT Free Auto-Bot Bot for instant purchase Mystery Box NFT

17 views · 1 month ago

—Tags— binance, nft, bot, buy, mysterybox, box, busd, autobuy, cryptobot, binance, bitcoin, crypto trading bot, cryptocurrency, ...

Binance NFT Free Auto Bot | Bot for instant purchase Mystery Box NFT

79 views · Mar 18, 2022

Andrés [redacted]

396 subscribers

Want to download NFT Mystery Box faster than anyone ?! In the video, a bot for auto-purchase Mystery Box NFT, presented as an extension for the Chrome browser.
Link: <https://github.com/NFTSupp/NFTBOT/raw...>

—Tags—
binance, nft, bot, buy, mysterybox, box, busd, autobuy, cryptobot, binance, bitcoin, crypto trading bot, cryptocurrency, binance trading bot, binance trade bot, bitcoin trading bot, btc, bot, binance bot trading, nance grid trading, bnb, binance nft, bot for binance, binance trading tutorial

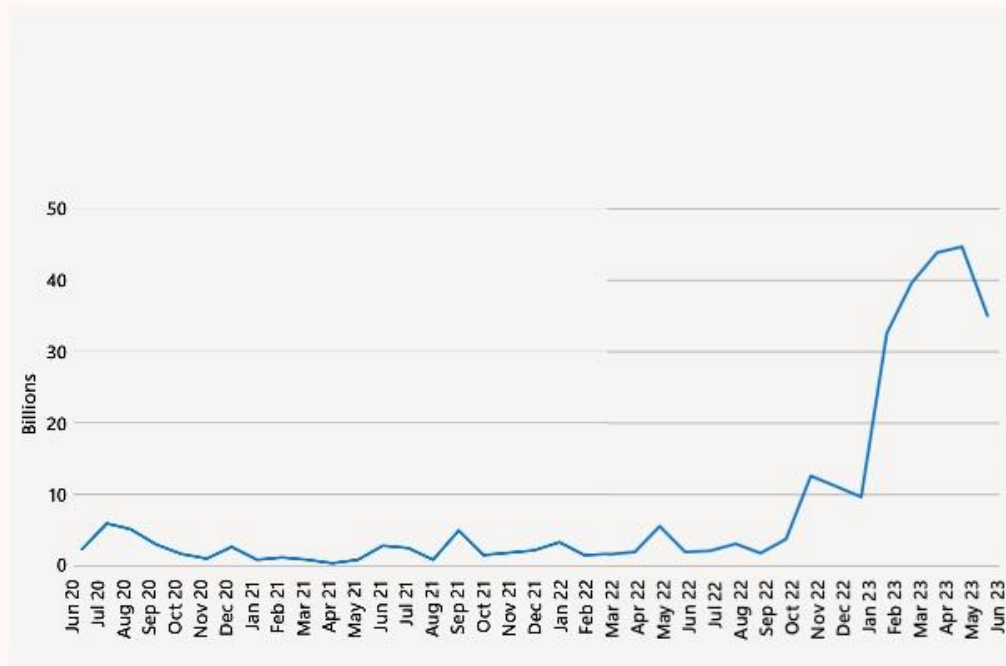
SHOW LESS

Fonte: Netscope

Malware - Stealers

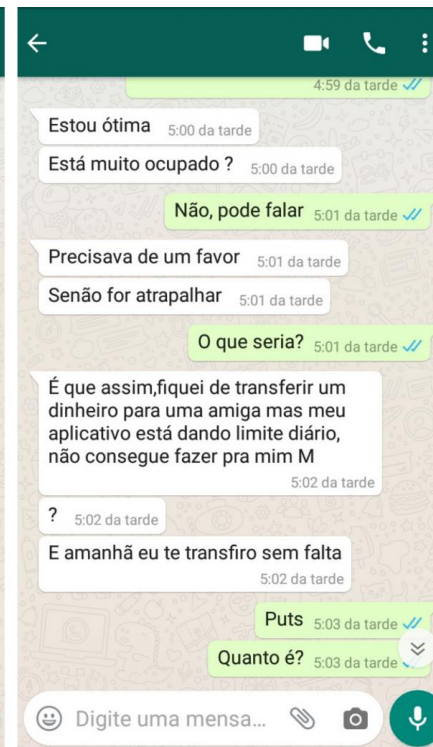
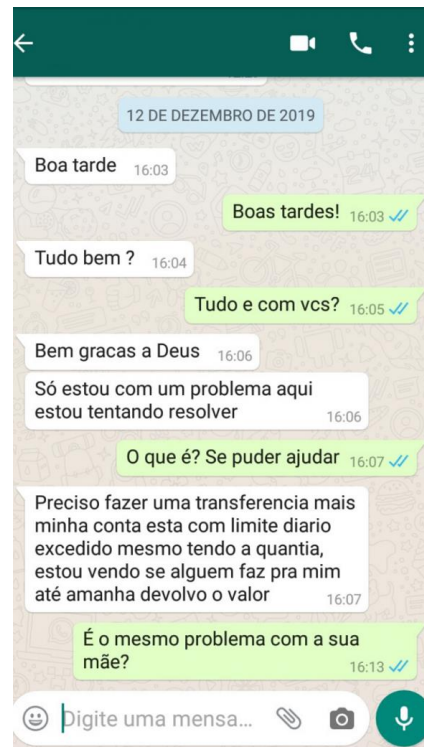
Password based attacks spiked in 2023

After a notable increase in the number of password-based attacks per month in October 2022, the number skyrocketed in 2023. In April, there were 11,000 attacks per second, a tenfold increase from the same time last year.



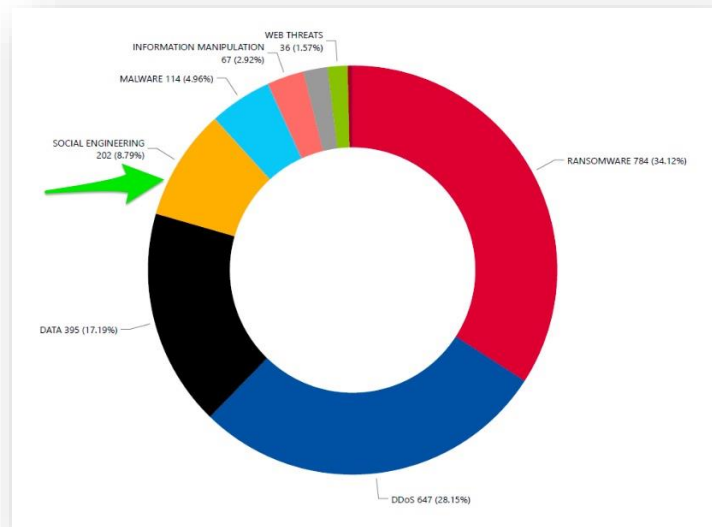
Fonte: Microsoft

Engenharia Social

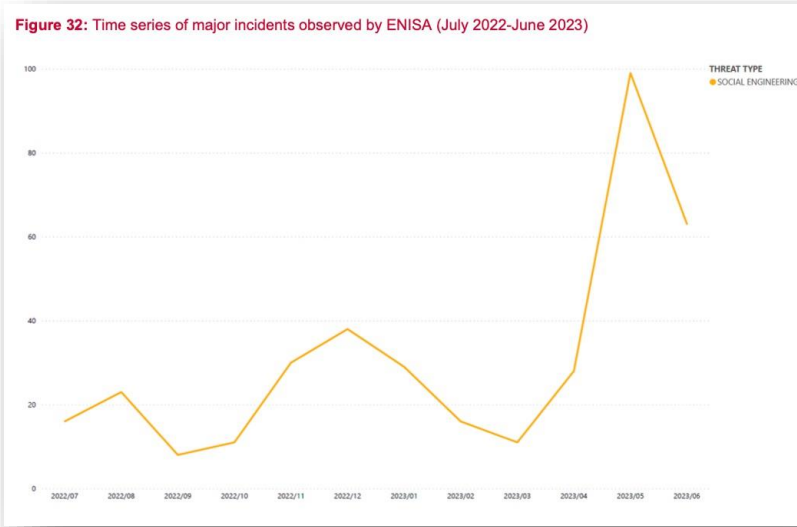




Engenharia Social

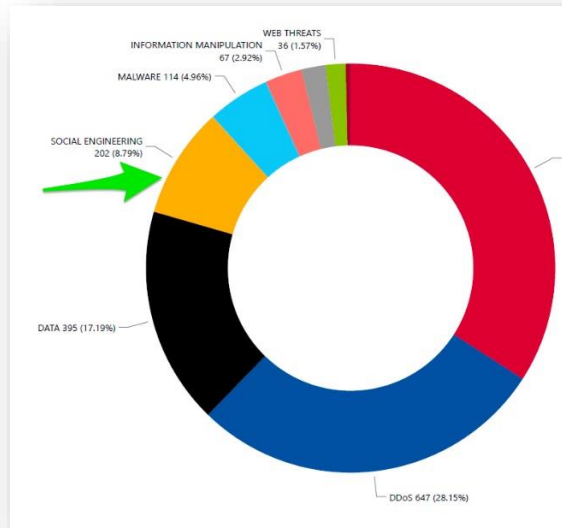


Fonte: ENISA



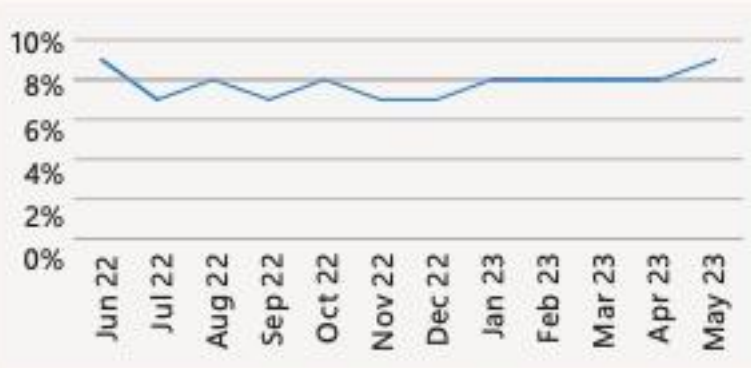
Fonte: ENISA

Engenharia Social



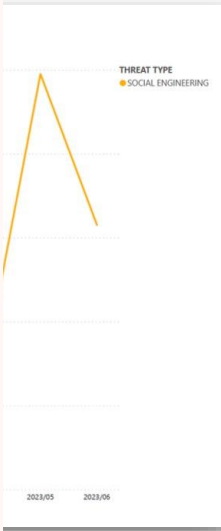
For

Percentage of clicks on phish simulations
 Link-clicking behavior by users has remained relatively unchanged despite the widespread implementation of security awareness training programs, and increased sophistication of phish.



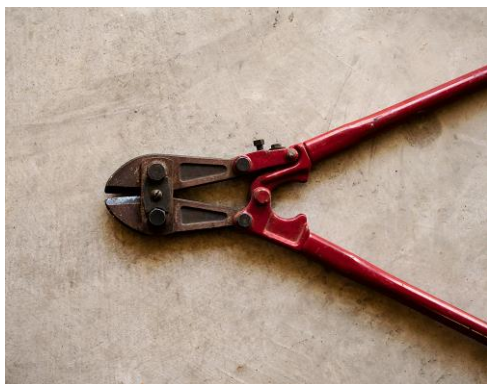
Source: Microsoft Defender for Office 365 attack simulation training data

Fonte: Microsoft



Fonte: ENISA

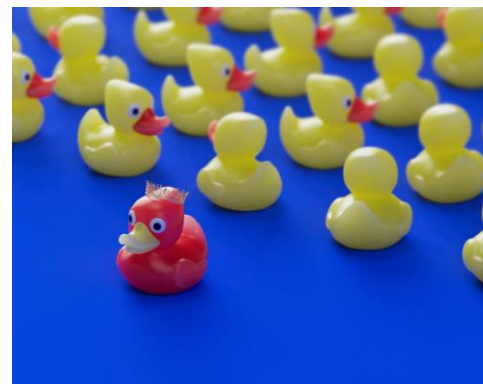
Ameaças contra dados



Violação
(Data Breach)

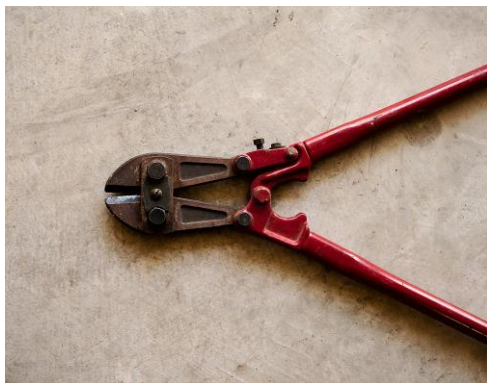


Vazamento
(Data Leak)



Manipulação
(Data Manipulation,
poisoning)

Ameaças contra dados



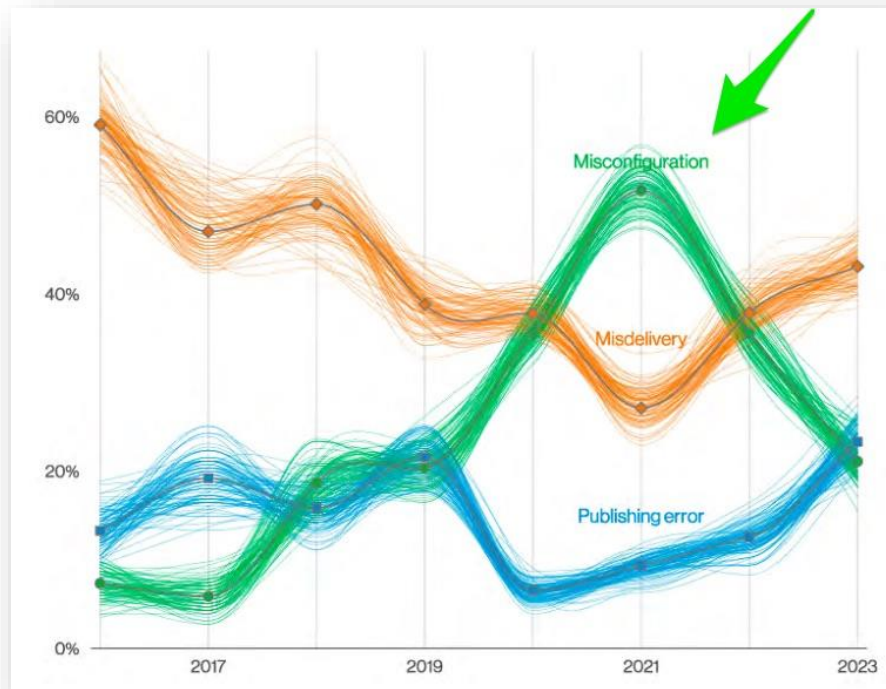
Violação
(Data Breach)

- / Substancial aumento nos últimos anos [ENISA]. Tem relação com
 - Industria do cibercrime
 - Ransomware
 - Stealers
- / Segundo a IBM, US\$ 4.35 Mi é o custo médio de uma violação. US\$ 4.82 Mi se for de infra crítica*

Ameaças contra dados

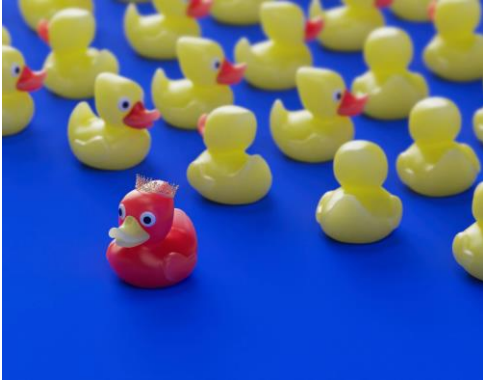


Vazamento
(Data Leak)



Fonte: Data Breach Investigation Report 2023 - Verizon

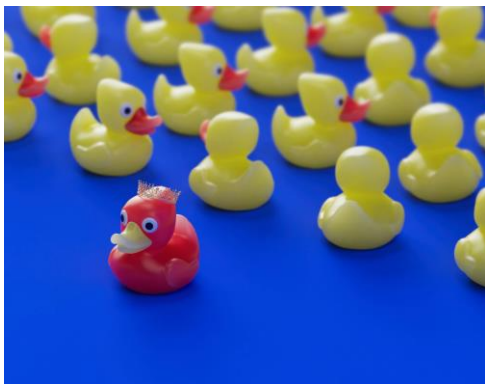
Ameaças contra dados



Manipulação
(Data Manipulation,
poisoning)



Ameaças contra dados



Manipulação
(Data Manipulation,
poisoning)

ACCEPTED FOR PUBLICATION IN IEEE TRANSACTIONS ON SUSTAINABLE COMPUTING; DOI: 10.1109/TSUSC.2023.3293269

1

On the Robustness of Random Forest Against Untargeted Data Poisoning: An Ensemble-Based Approach

Marco Anisetti, Claudio A. Ardagna, Alessandro Balestrucci, Nicola Bena, Ernesto Damiani, Chan Yeob Yeun

Abstract—Machine learning is becoming ubiquitous. From finance to medicine, machine learning models are boosting decision-making processes and even outperforming humans in some tasks. This huge progress in terms of prediction quality does not however find a counterpart in the security of such models and corresponding predictions, where perturbations of fractions of the training set (poisoning) can seriously undermine the model accuracy. Research on poisoning attacks and defenses received increasing attention in the last decade, leading to several promising solutions aiming to increase the robustness of machine learning. Among them, ensemble-based defenses, where different models are trained on portions of the training set and their predictions are then aggregated, provide strong theoretical guarantees at the price of a linear overhead. Surprisingly, ensemble-based defenses, which do not pose any restrictions on the base model, have not been applied to increase the robustness of random forest models. The work in this paper aims to fill in this gap by designing and implementing a novel hash-based ensemble approach that protects random forest against untargeted, random poisoning attacks. An extensive experimental evaluation measures the performance of our approach against a variety of attacks, as well as its sustainability in terms of resource consumption and performance, and compares it with a traditional monolithic model based on random forest. A final discussion presents our main findings and compares our approach with existing poisoning defenses targeting random forests.

Index Terms—Ensemble, Machine Learning, Poisoning, Random Forest, Sustainability

cs.LG] 28 Aug 2023

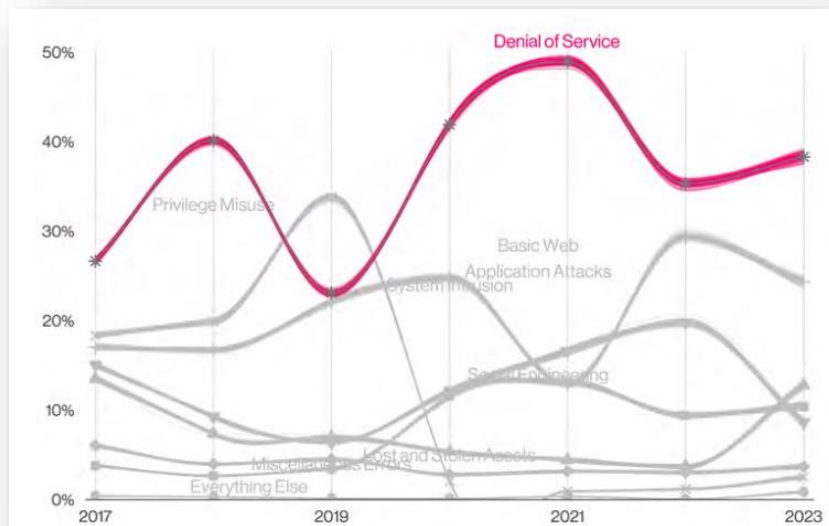


Ameaças contra disponibilidade – Negação de Serviço



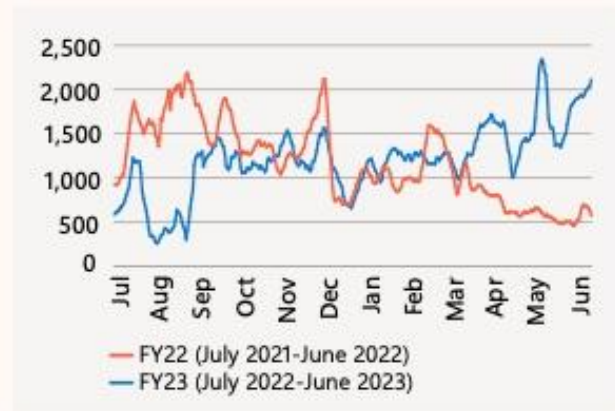
Modern Times © Roy Export S.A.S.

Ameaças contra disponibilidade – Negação de Serviço



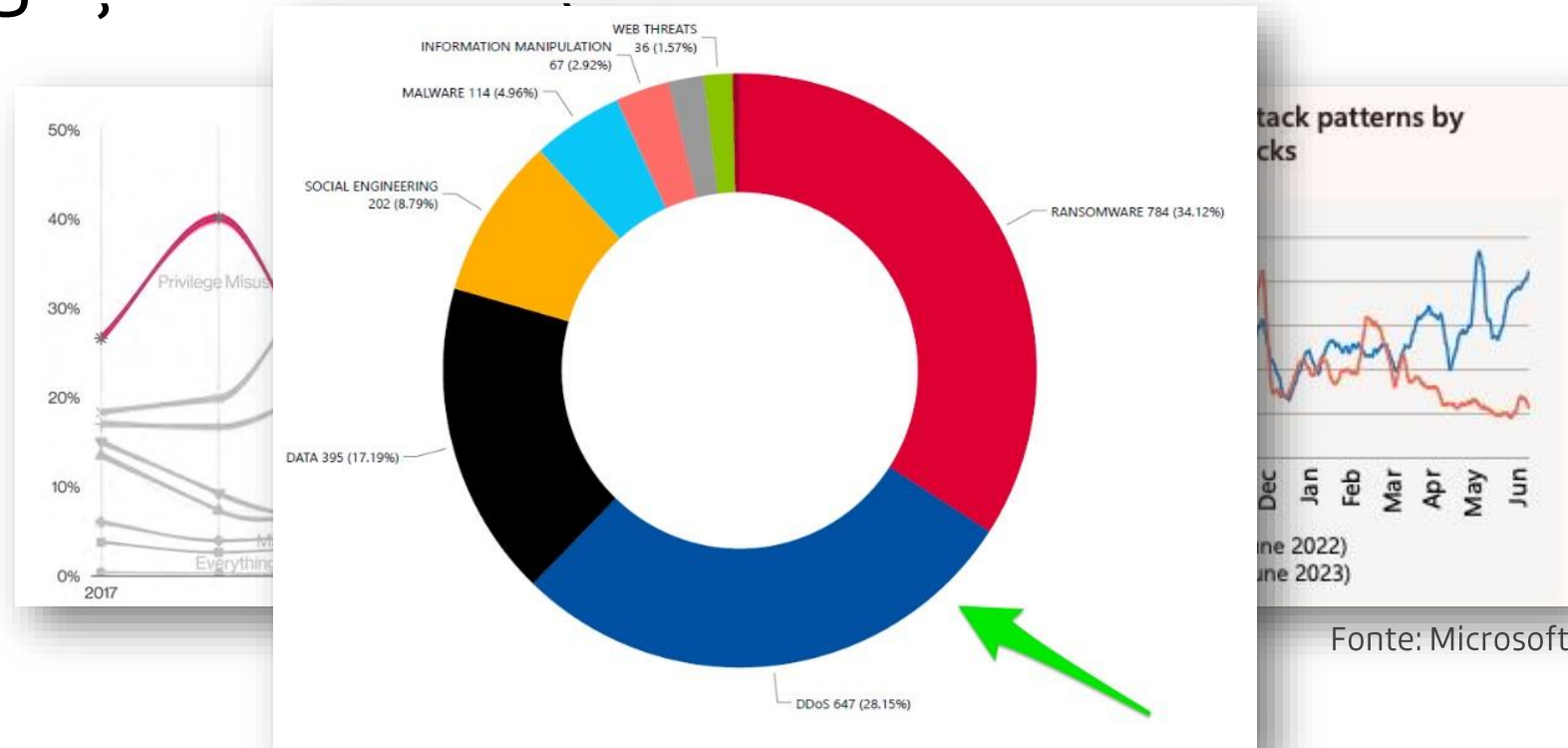
Fonte: Verizon

Comparison of DDoS attack patterns by average number of attacks



Fonte: Microsoft

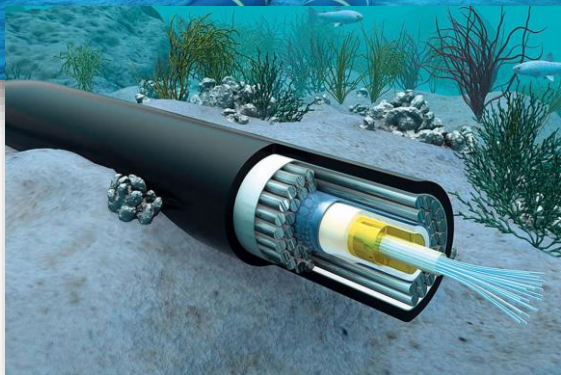
Ameaças contra disponibilidade – Negação de Serviço



Fonte: Microsoft

Fonte: ENISA

Ameaças contra disponibilidade - Internet



Le Monde

Consulter le journal

ACTUALITÉS ▼ ÉCONOMIE ▼ VIDÉOS ▼ DÉBATS ▼ CULTURE ▼ LE GOÛT DU MONDE ▼

PIXELS · ACCÈS À INTERNET

Câbles de fibre optique sectionnés en France : le parquet de Paris ouvre une enquête préliminaire

Dans la nuit de mardi à mercredi, des câbles de fibre optique chargés de transporter d'importantes quantités de données ont été sectionnés, perturbant un temps la connexion à Internet dans plusieurs régions de France.

Par Martin Untersinger et Olivier Pinaud

Publié le 27 avril 2022 à 13h17, modifié le 28 avril 2022 à 00h20 · 🕒 Lecture 3 min.

Ajouter à vos sélections

Ameaças contra disponibilidade - Internet



European cable cut may impact transoceanic routes



• Service Degradation

Posted: Wed, 19 Oct 2022 20:31:15 UTC

Resolved: Thu, 20 Oct 2022 18:58:01 UTC

Impact Start Time: Wed, 19 Oct 2022 20:08:40 UTC

Impact Remediated: Thu, 20 Oct 2022 18:58:01 UTC

Affected Services: Traffic Forwarding

Clouds: zscaler.net, zscalerone.net, zscalertwo.net, zsccloud.net, zscalerthree.net, private.zscaler.com, zdxcloud.net

Description:

What has happened?

We are aware of a major cable cut in the South of France that has impacted major cables with connectivity to Asia, Europe, US and potentially other parts of the world. As a result of the cable cut, customers may see packet loss and/or latency for websites and applications which traverse these impacted paths.

What is Zscaler doing?

Zscaler has made routing adjustments where possible to route around the problem but in certain cases we see the reverse path from the Application/Content providers which is under the control of the Application/Content Providers still traverses the impacted paths.

What can you do?

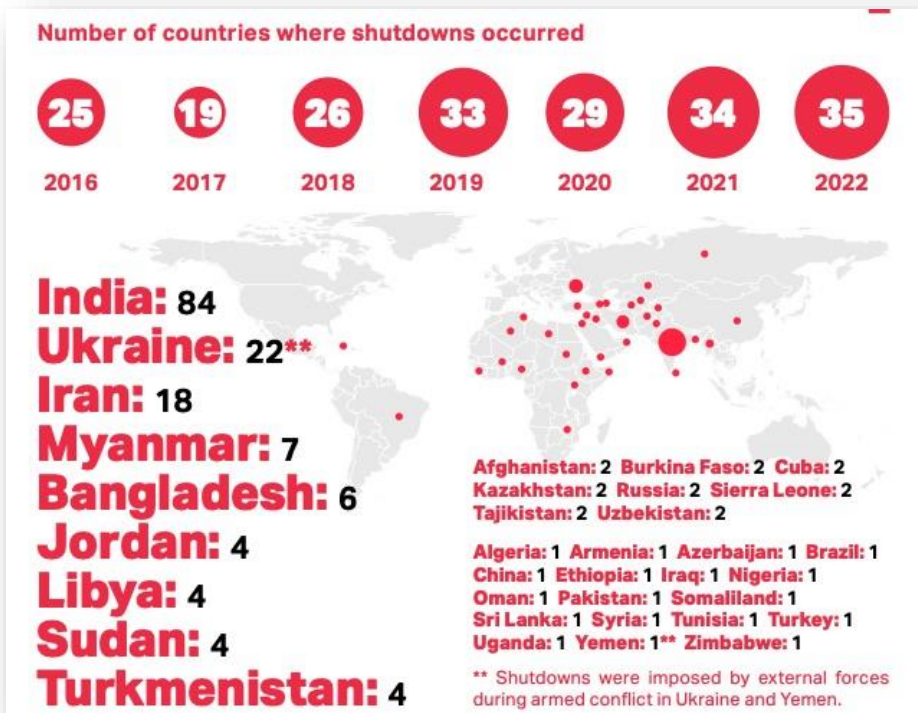
Zscaler is working with the content providers to have them influence their portion of the path. If you experience slowness with specific applications, especially applications hosted overseas, please contact the application provider and refer them to this trust post.

At this time, based on the information we have, the local authorities are investigating and repair crews are on scene but can not access the site until police complete their evidence collection.

There is currently no estimated time to repair available

We will provide an update as additional information becomes available.

Ameaças contra disponibilidade - Internet



Fonte: Internet shutdowns in 2022 - KeepItOn

Manipulação da Informação

抖音

抖音号:Ballun304335634

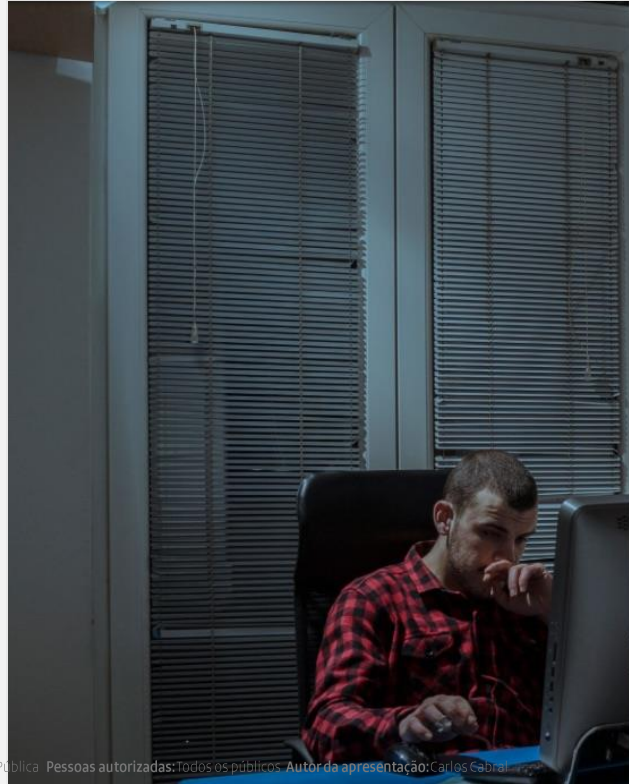
以客户为中心



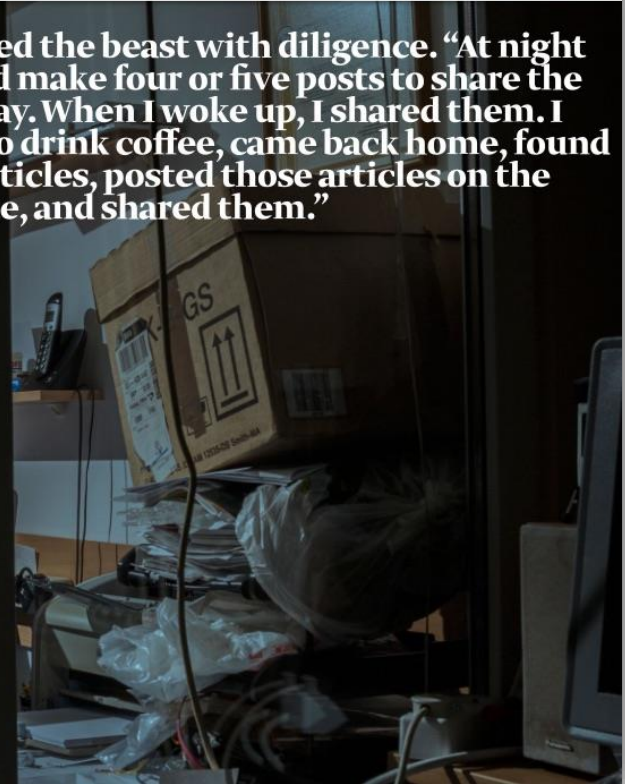
Manipulação da Informação

WIRED

The Macedonian Teens Who Mastered Fake News



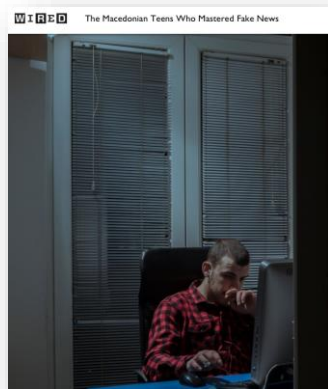
Boris fed the beast with diligence. “At night I would make four or five posts to share the next day. When I woke up, I shared them. I went to drink coffee, came back home, found new articles, posted those articles on the website, and shared them.”



Manipulação da Informação



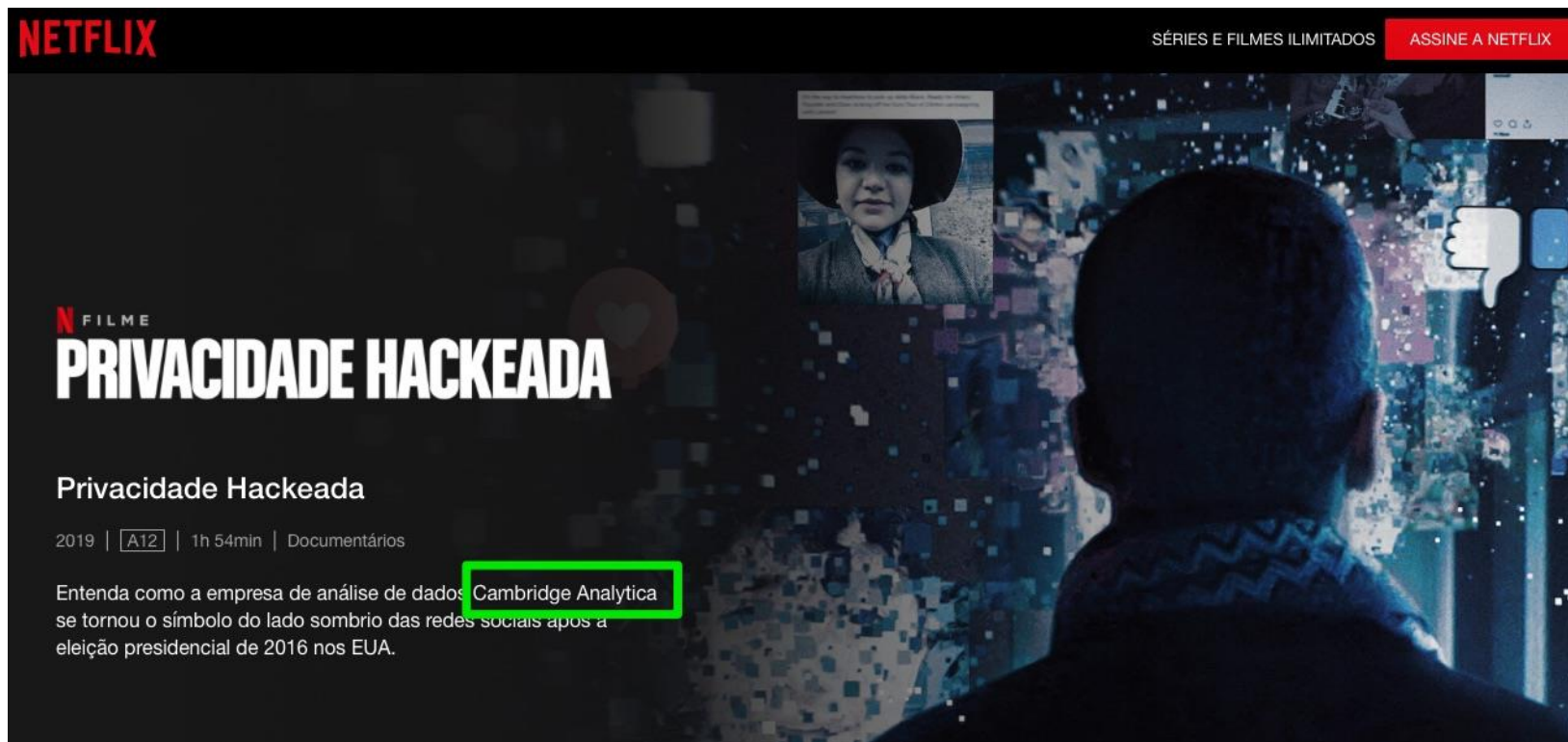
+



=



Manipulação da Informação



NETFLIX

SÉRIES E FILMES ILIMITADOS ASSINE A NETFLIX

FILME
PRIVACIDADE HACHEADA

Privacidade Hackeada

2019 | **A12** | 1h 54min | Documentários

Entenda como a empresa de análise de dados **Cambridge Analytica** se tornou o símbolo do lado sombrio das redes sociais após a eleição presidencial de 2016 nos EUA.

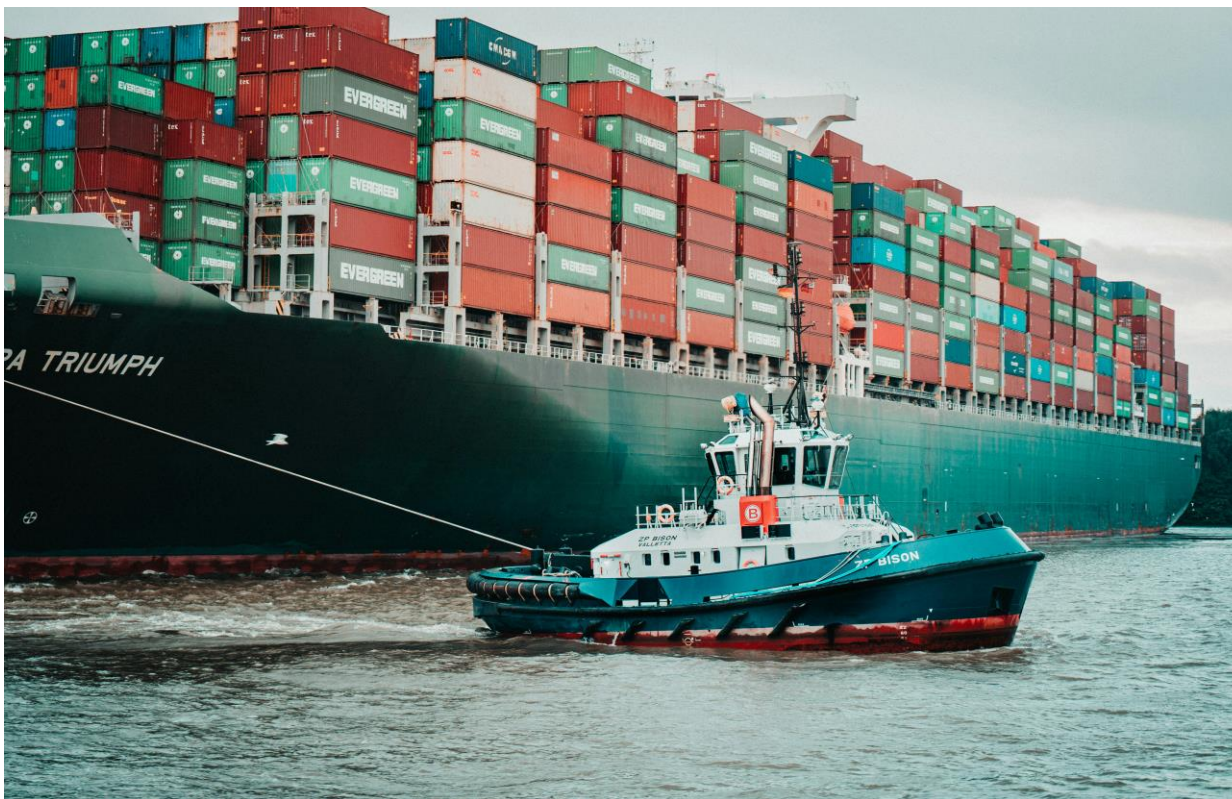
Manipulação da Informação

Coordinated
Inauthentic Behavior



Fonte: Meta

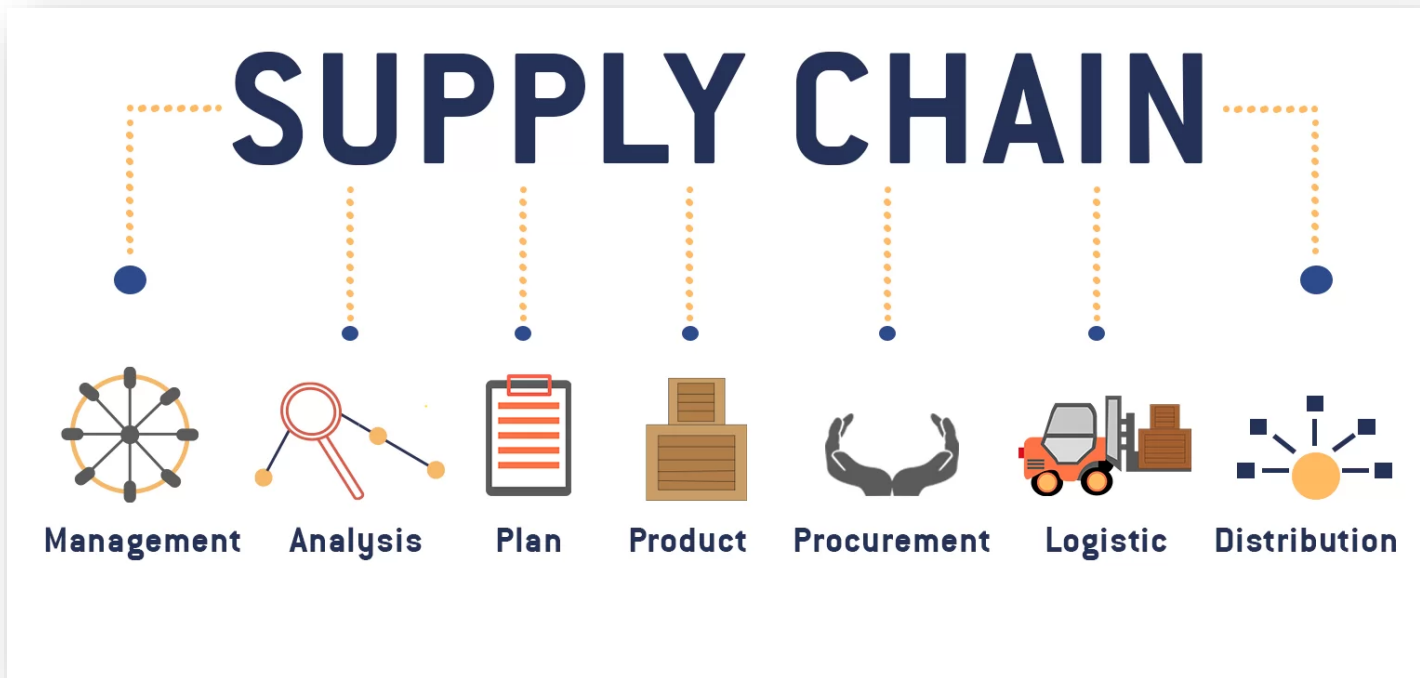
Ataques de Supply Chain



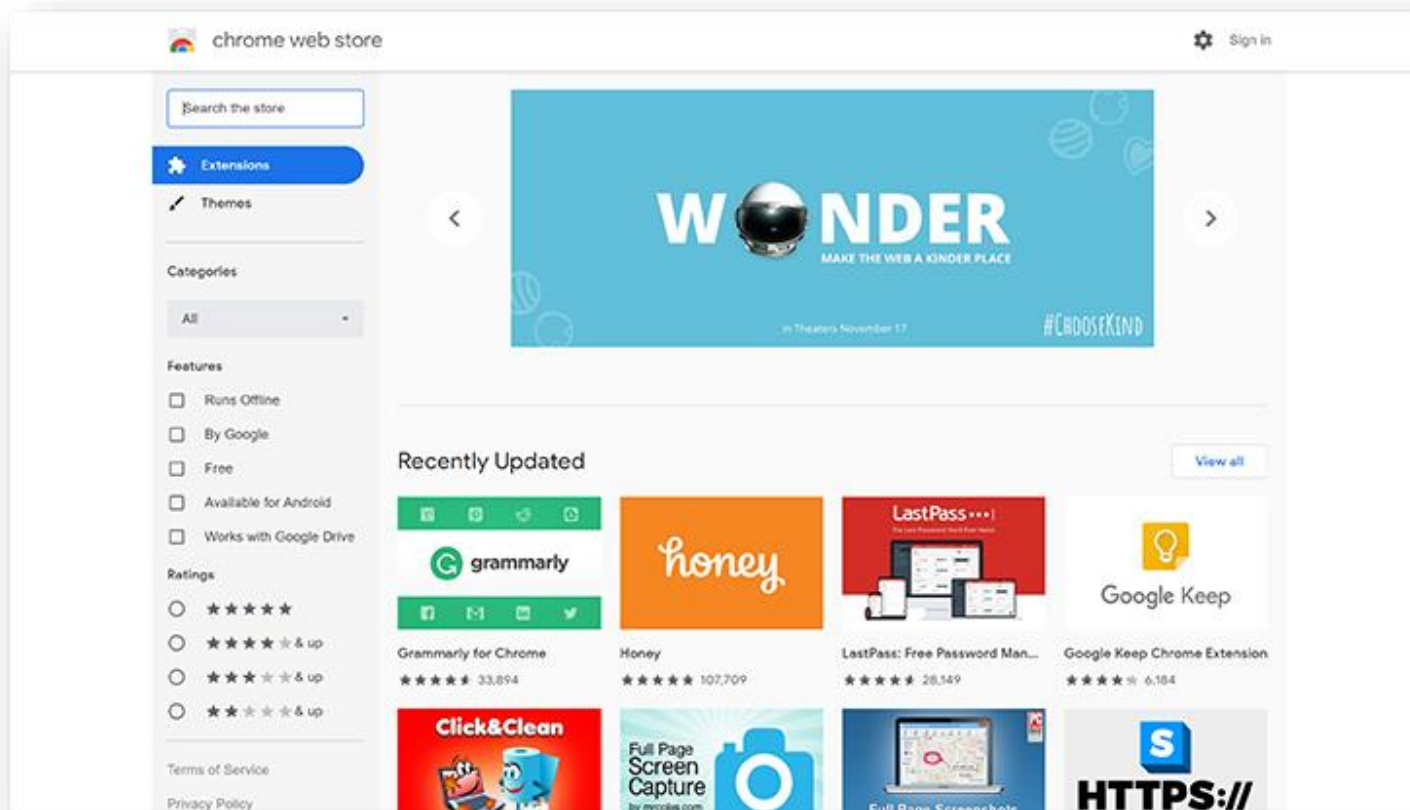
Ataques de Supply Chain



Ataques de Supply Chain



Ataques de Supply Chain



The screenshot shows the Chrome Web Store interface. At the top, there is a search bar and a 'Sign in' button. The main navigation includes 'Extensions' (selected), 'Themes', and 'Categories' (set to 'All'). A 'Features' section lists options like 'Runs Offline', 'By Google', 'Free', 'Available for Android', and 'Works with Google Drive'. A 'Ratings' section shows star ratings from 5 stars down to 1 star. Below the navigation is a large blue banner for 'WONDER' with the tagline 'MAKE THE WEB A KINDER PLACE' and the hashtag '#CHOOSEKIND'. The 'Recently Updated' section displays a grid of extension cards, including Grammarly, Honey, LastPass, Google Keep, Click&Clean, Full Page Screen Capture, and HTTPS://.

Ataques de Supply Chain

Ataque contra a
SolarWinds
(2019 – 2021)

The screenshot displays the SolarWinds NPM Summary dashboard. The top navigation bar includes 'solarwinds', 'MY DASHBOARDS', 'ALERTS & ACTIVITY', 'REPORTS', 'SETTINGS', and 'HELP'. The main content area is divided into several sections:

- All Nodes managed by NPM:** A list of nodes grouped by vendor and status. The list includes:
 - American Power Conversion Corp. (Green)
 - Avaya Communication (Green)
 - Cisco (Red)
 - Up (Green)
 - Critical (Red)
 - NEWY-2811-WAN (Red)
 - Down (Red)
 - Warning (Yellow)
 - AUS-SUB-01 (Yellow)
 - DEN-2960-1A (Yellow)
 - DEN-3750-SwitchStack (Yellow)
 - EAST-4506E-CORE (Yellow)
 - EAST-9300-1stFl (Yellow)
 - FIBRE-Tex-Mds9120 (Yellow)
 - LON-3560-AS1.demo.lab (Yellow)
 - LON-3560-AS2.demo.lab (Yellow)
 - LOSA-2821-WAN (Yellow)
 - NX-7K-B-admin (Yellow)
 - SIN-3560-AS1.demo.lab (Yellow)
 - SIN-3560-AS2.demo.lab (Yellow)
 - WEST-3850-CORE (Yellow)
 - Dell Computer Corporation (Green)
 - FS Networks, Inc. (Yellow)
 - H3C (Green)
 - IBM (Green)
 - InfoBlox Inc. (Green)
 - Juniper Networks, Inc. (Red)
 - Linux (Red)
 - Meraki Networks, Inc. (Green)
 - Netgear (Green)
 - Nutanix Inc. (Green)
 - Palo Alto Networks (Green)
 - SonicWALL, Inc. (Yellow)
- MPLS Network:** A network topology diagram showing various nodes connected to a central cloud. Nodes include LOSA-2821, NEWY-2811, LOSA-F4320/P, NEWY-EX200, WEST-3850, WEST-4211, EAST-4211, and EAST-4000. Each node shows its IP address and average response time.
- List of Switch Stacks:** A table listing switch stacks with their IP addresses, MAC addresses, member counts, and status.

CAPTION	IP ADDRESS	MAC ADDRESS	MEMBER COUNT	STATUS	DATA RING STATUS
WEST-3850-CORE	10.129.0.1	DC:A5:F4:78:07:80	4	Warning	Warning
EAST-9300-1stFl	10.1.0.21	D4:AD:BD:70:F3:80	2	Up	Up
DEN-3750-SwitchStack	10.1.120.23	00:25:46:6F:46:80	7	Up	Up
- Interfaces with High Percent Utilization:** A table showing interfaces with high utilization percentages.

NODE	INTERFACE	RECEIVE	TRANSMIT
Nexus-2	port-channel31 - Po31	90%	60%
Nexus-1	Ethernet1/11 - Eth1/11	90%	30%
Nexus-2	mgm0 - management0	30%	85%
Nexus-1	mgm0 - management0	30%	85%
EAST-RP1	eth0	86%	24%

Ransomware

Adversário exige resgate para reaver os dados ou não publicá-los

Engenharia Social

Golpes e ataques contra as pessoas

Ameaças contra disponibilidade – Negação de Serviço

Exaurir a capacidade dos sistemas

Manipulação de Informação

Fake News e outros métodos de interferência na opinião pública

Malware

Toda “fauna e flora” de código malicioso

Ameaças contra dados

Violação, destruição ou vazamento

Ameaças contra disponibilidade - Internet

Interrupções, apagões, desligamentos ou censura da Internet.

Ataques de Supply Chain

Ataques contra empresas por meio de seus fornecedores



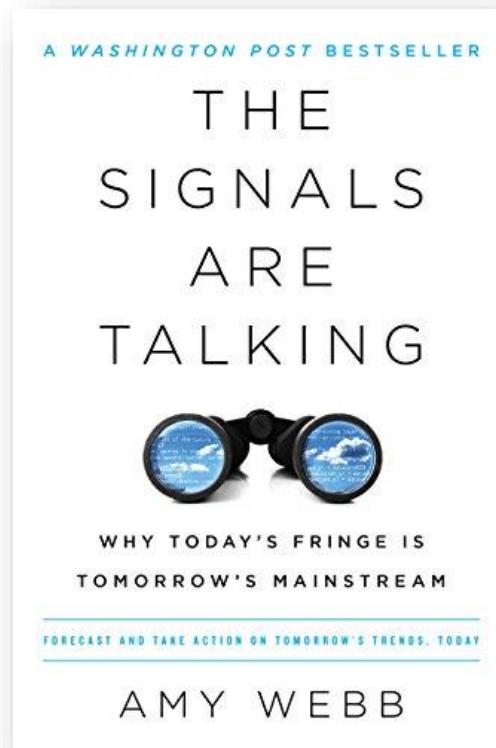
FUTURO

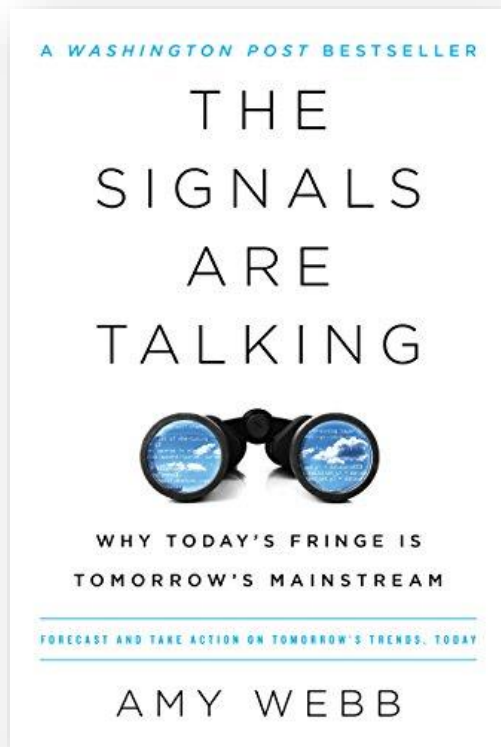


Amy Webb

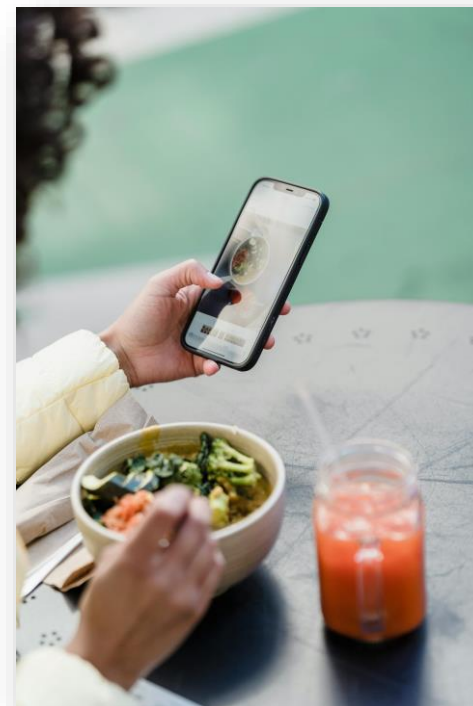
Futurista Quantitativa

Fundadora e CEO do Future Today Institute

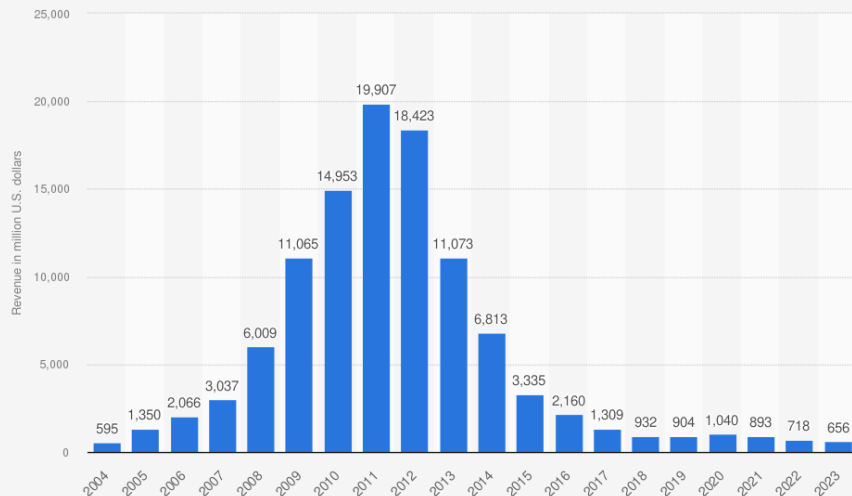




Research in Motion
US\$ 26 Bi Valuation
em 2007



BlackBerry/RIM's revenue from fiscal year 2004 to 2023 (in million U.S. dollars)*

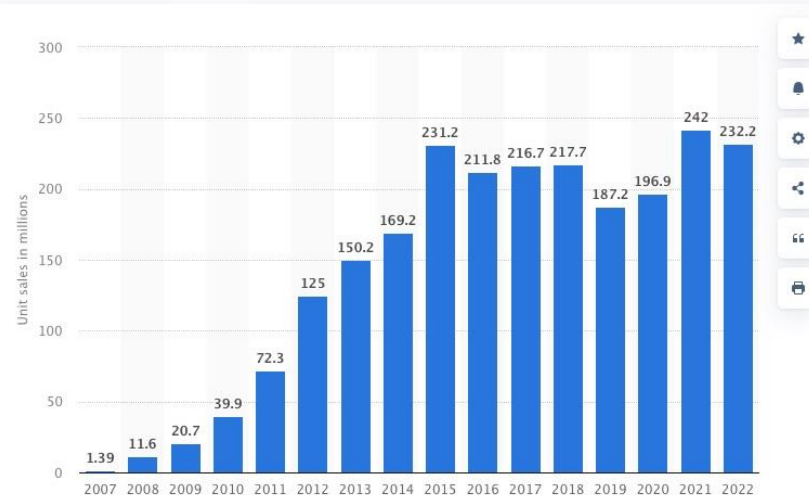


Source
BlackBerry
© Statista 2023

Additional Information:
Worldwide; BlackBerry; 2004 to 2023

Fonte: Statista

Unit sales of the Apple iPhone worldwide from 2007 to 2022 (in millions)



Additional Information

© Statista 2023

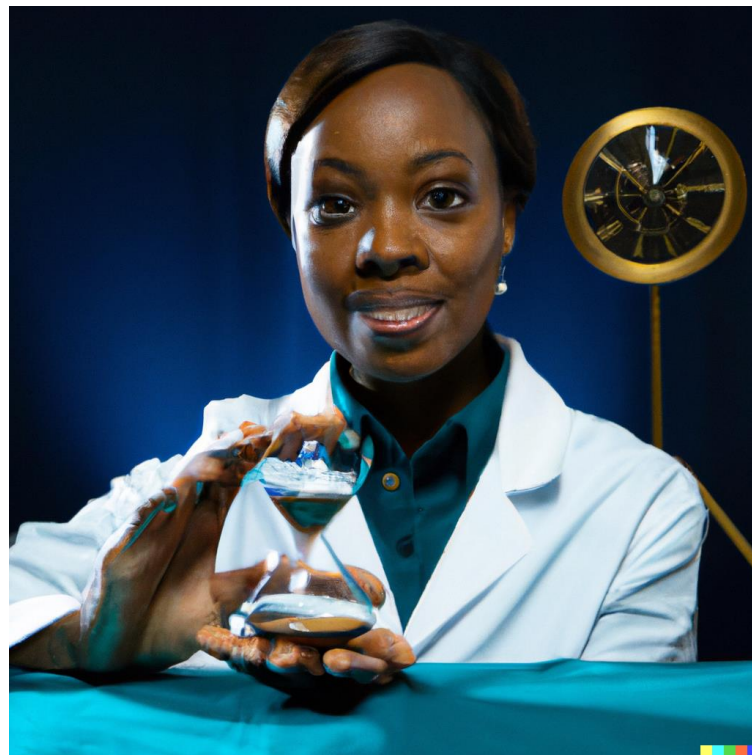
Show source

Fonte: Statista

Futurologia – Reconhecer Sinais

Processo de Amy Webb

- / Procure sinais de forma ampla (Early adopters, Patentes, Evangelistas, etc.)
- / Analise tudo ressaltando, contradições (VHS x Betamax), inflexões (touchscreen), práticas (redes sociais), Hacks (Viagra) e Extremos (Vacinas de RNA mensageiro)
- / Questione as tendências
- / Coloque-as no tempo
- / Escreva os cenários
- / Critique os cenários





Tempest



16TH
EDITION

16TH
EDITION

16TH
EDITION

16TH
EDITION

16TH
EDITION

16TH
EDITION

16TH
EDITION

16TH
EDITION



Future Today
Institute

3 Cenários (2028)



Otimista



Pessimista



Provável

3 Cenários (2028)



Otimista

Independência das plataformas (Soberania)

+

Colaboração global em cibersegurança

+

Desenvolvimento e aplicação de padrões de segurança globais

3 Cenários (2028)



Otimista

The Verge / Tech / Reviews / Science / Entertainment / More +

TECH / ANTITRUST / REGULATION

US antitrust enforcers lay down plans to block Big Tech mergers

/ The proposed guidelines target Big Tech platforms.

By [Makana Kelly](#), a reporter who covers the politics and power influencing the tech industry. Before joining The Verge in 2018, she covered Congress and breaking news.

Jul 19, 2023 at 2:34 PM GMT-3 | [12 Comments](#) / [12 New](#)

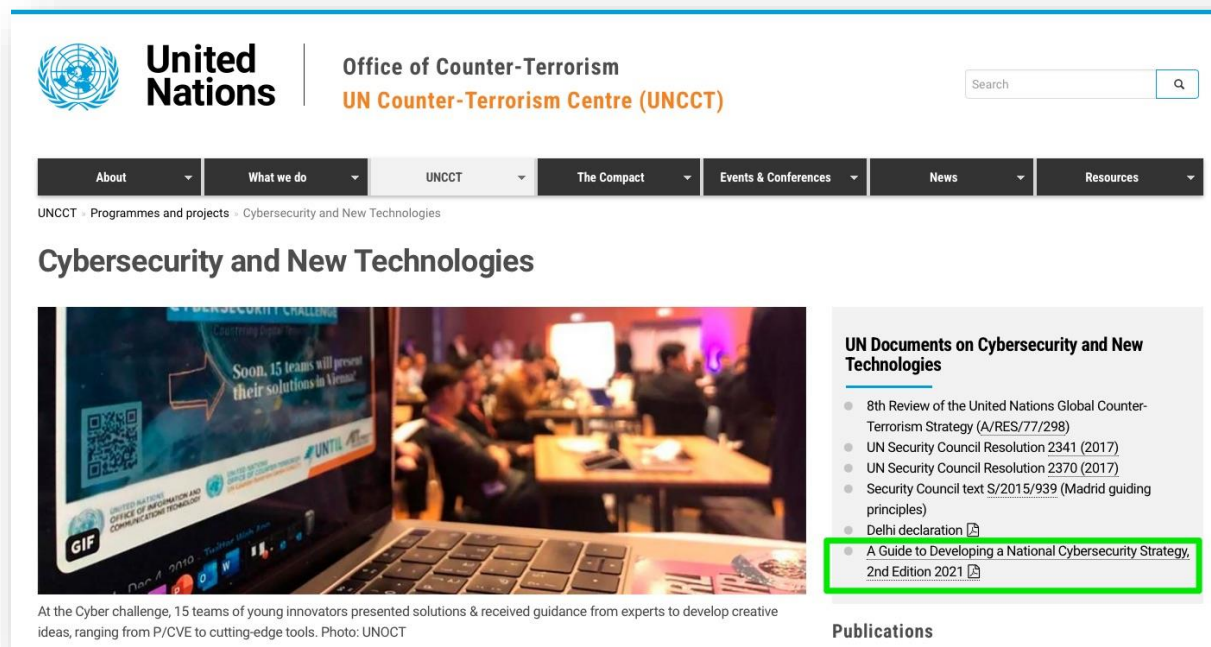
Photo by Chip Somodevilla / Getty Images

Federal antitrust enforcers released new draft [guidelines](#) for evaluating anti-competitive mergers Wednesday, redoubling their aggressive scrutiny over digital markets.

3 Cenários (2028)



Otimista



The screenshot shows the UN CTO website. The header includes the United Nations logo, the text 'United Nations Office of Counter-Terrorism UN Counter-Terrorism Centre (UNCCT)', and a search bar. A navigation menu contains 'About', 'What we do', 'UNCCT', 'The Compact', 'Events & Conferences', 'News', and 'Resources'. The main content area is titled 'Cybersecurity and New Technologies' and features a video player showing a 'CYBERSECURITY CHALLENGE' event with a QR code and the text 'Soon, 15 teams will present their solutions in Vienna'. To the right, a list of 'UN Documents on Cybersecurity and New Technologies' is displayed, with the last item, 'A Guide to Developing a National Cybersecurity Strategy, 2nd Edition 2021', highlighted with a green box.

United Nations | Office of Counter-Terrorism
UN Counter-Terrorism Centre (UNCCT)

Search

About | What we do | **UNCCT** | The Compact | Events & Conferences | News | Resources

UNCCT - Programmes and projects - Cybersecurity and New Technologies

Cybersecurity and New Technologies

UN Documents on Cybersecurity and New Technologies

- 8th Review of the United Nations Global Counter-Terrorism Strategy (A/RES/77/298)
- UN Security Council Resolution 2341 (2017)
- UN Security Council Resolution 2370 (2017)
- Security Council text S/2015/939 (Madrid guiding principles)
- Delhi declaration
- A Guide to Developing a National Cybersecurity Strategy, 2nd Edition 2021**

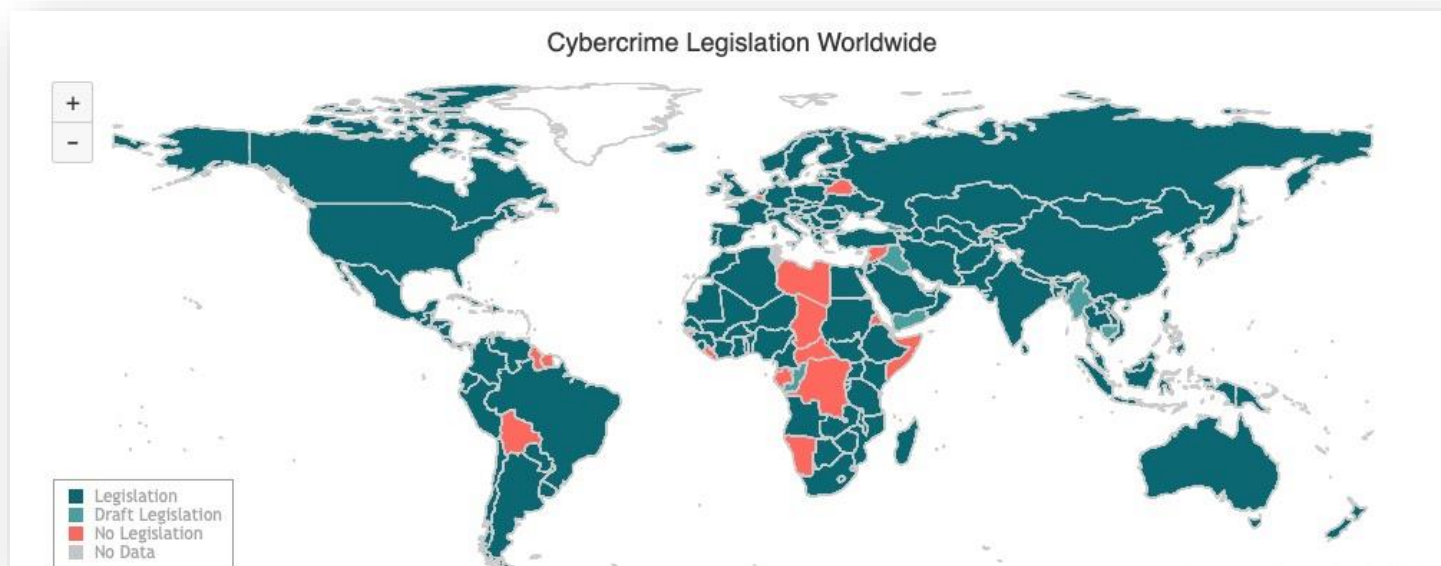
Publications

At the Cyber challenge, 15 teams of young innovators presented solutions & received guidance from experts to develop creative ideas, ranging from P/CVE to cutting-edge tools. Photo: UNOCT

3 Cenários (2028)



Otimista



Fonte: United Nations Conference on Trade and Development (UNCTAD)

3 Cenários (2028)



Otimista

Independência das plataformas (Soberania)

+

Colaboração global em cibersegurança

+

Desenvolvimento e aplicação de padrões de segurança globais



3 Cenários (2028)



Otimista

Ransomware e malware

Extorsão e toda “fauna e flora” de código malicioso

Ameaças contra dados

Violação, destruição ou vazamento

Ataques de Supply Chain

Ataques contra empresas por meio de seus fornecedores

Ameaças contra disponibilidade – Negação de Serviço

Exaurir a capacidade dos sistemas

Manipulação de Informação

Fake News e outros métodos de interferência na opinião pública

Engenharia Social

Golpes e ataques contra as pessoas

Incidentes Adversariais

Seriam sensivelmente reduzidos

- / Padronização é organização
- / Soberania tecnológica é prover soluções inclusive para quem não pode pagar
- / Colaboração é rapidamente adaptar as defesas às capacidades do atacante

3 Cenários (2028)



Otimista

Ameaças contra disponibilidade - Internet

Interrupções, apagões, desligamentos ou
censura da Internet.

Seria limitada aos desastres naturais
e autocracias

3 Cenários (2028)



Otimista

Independência das plataformas (Soberania)

+

Colaboração global em cibersegurança

+

Desenvolvimento e aplicação de padrões de
segurança globais

=

**Evolução Tecnológica
Harmoniosa**

BELIEVE



Tempest



3 Cenários (2028)



Pessimista

Escalada dos conflitos digitais
+
Intensificação na correlação de táticas entre
cibercrime e adversários Estatais
+
Desafios para a soberania tecnológica e
fragmentação da Internet

3 Cenários (2028)



Pessimista

COUNCIL *on* FOREIGN RELATIONS

Map Timeline Glossary Methodology [Report an Incident](#)

Cyber Operations Tracker

The Digital and Cyberspace Policy program's cyber operations tracker is a database of the publicly known state-sponsored incidents that have occurred since 2005. Know of an incident not listed in the tracker? [Report it to us.](#)

f t

Search by Incident, Threat Actor, Keyword 🔍

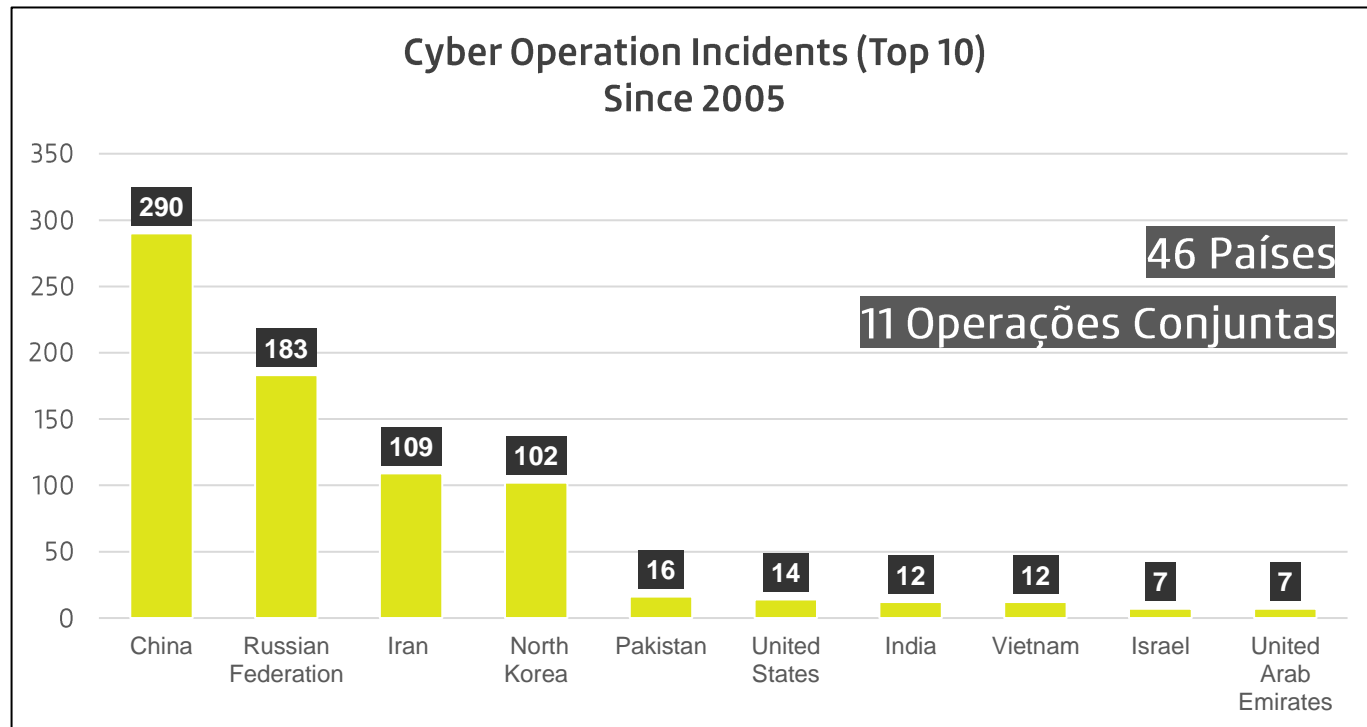
Operations by Country

Since 2005, thirty-four countries are suspected of sponsoring cyber operations. China, Russia, Iran, and North Korea sponsored 77 percent of all suspected operations. In 2019, there were a total of seventy-six operations, most being acts of espionage.

3 Cenários (2028)



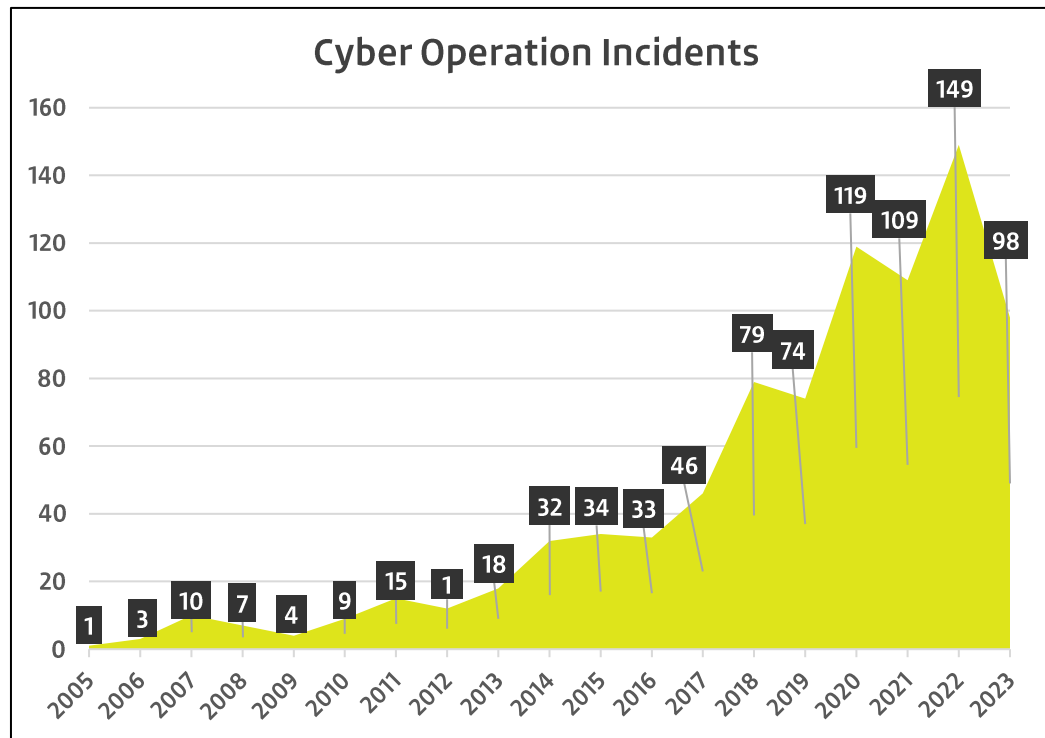
Pessimista



3 Cenários (2028)



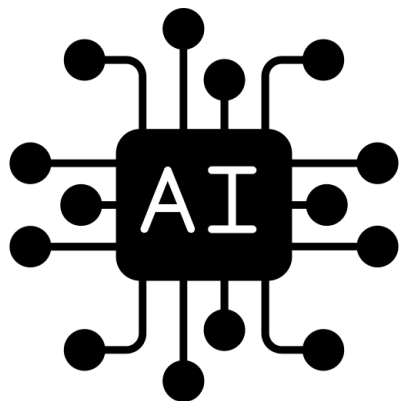
Pessimista



3 Cenários (2028)



Pessimista



- / Uso de IA Generativa para criar sites falsos de notícias para fraudar ad market [Já existe].
- / Deep Fake de voz e vídeo em golpes e manipulação de opinião pública [Já existe].
- / Fake Nudes para extorsão [Já existe]
- / Uso de machine learning para identificar [Já existe] ou explorar vulnerabilidades
- / E muito mais...

3 Cenários (2028)



Pessimista

Escalada dos conflitos digitais



+

Intensificação na correlação de táticas entre
cibercrime e adversários Estatais

+

Desafios para a soberania tecnológica e
fragmentação da Internet

3 Cenários (2028)



Pessimista

Escalada dos conflitos digitais



+

Intensificação na correlação de táticas entre
cibercrime e adversários Estatais



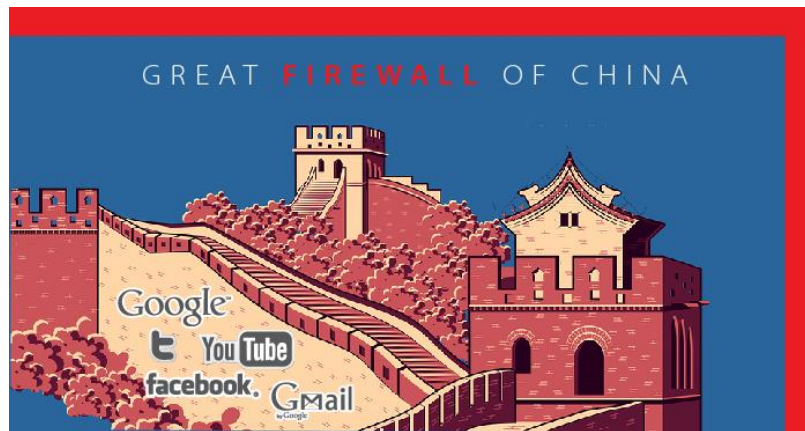
+

Desafios para a soberania tecnológica e
fragmentação da Internet

3 Cenários (2028)



Pessimista



- / Controle
- / Censura
- / Vigilância

3 Cenários (2028)



Pessimista

G.F. OF CHINA
NOS ANOS 2000

G.F. OF CHINA
NOS ANOS 2010



imgflip.com

3 Cenários (2028)



Pessimista



EL PAÍS

Opinião

OPINIÃO · EDITORIAIS · COLUNAS · TRIBUNAS · ANÁLISES

TRIBUNA 1

A “espionagem” do TikTok. Entre o capitalismo de vigilância e a apropriação da Internet

Ainda haverá esperança enquanto for possível assistir vídeos de gente dançando nas redes sociais



Rede social TikTok é acusada de roubar dados dos dispositivos de seus usuários.
ANJUM NAVEED (AP)

CARLOS CABRAL
03 AGO 2020 - 12:20 BRT

3 Cenários (2028)



Pessimista

Escalada dos conflitos digitais



+

Intensificação na correlação de táticas entre cibercrime e adversários Estatais



+

Desafios para a soberania tecnológica e fragmentação da Internet



=

**Conflito e competição
tecnológica**

3 Cenários (2028)



Pessimista

Ransomware e malware

Extorsão e toda “fauna e flora” de código malicioso

Ameaças contra dados

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Fake News e outros métodos de interferência na opinião pública

Engenharia Social

Golpes e ataques contra as pessoas

Seriam fortemente aumentados, remodelados e novos tipos poderiam ser criados

3 Cenários (2028)



Pessimista

Ameaças contra disponibilidade - Internet

Interrupções, apagões, desligamentos ou
censura da Internet.

Com a Internet fragmentada, se
torna fácil ligar e desligar.



3 Cenários (2028)



Provável

Avanços em segurança cibernética
acompanhados por uma corrida
armamentista digital.

+

Políticas de segurança cibernética focadas em
resiliência e recuperação.

+

Reordenamento das forças no sentido de
elevar no nível de coordenação entre atores

=

Coexistência Conflituosa

3 Cenários (2028)



Provável

Ransomware e malware

Extorsão e toda “fauna e flora” de código malicioso

Ameaças contra dados

Violação, destruição ou vazamento

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Ameaças contra disponibilidade - Internet

Interrupções, apagões, desligamentos ou censura da Internet.

Passariam por oscilações e metamorfoses.

IA ajuda tanto o ofensivo quanto o defensivo

3 Cenários (2028)



Provável



Nosso trabalho tá garantido



Obrigado



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 Tempest

ACADEMY:
Conference