Start Planning Now

Cyber Threats and Trends for 2023

Allen Eaves

Managing Director, Information Security and Technology

contents

Where Are We?

Rear-view, side-view Mirror

What's Ahead?

Through the windshield, traffic report

How do we Plan Forward?

We have found a better route

Where Are We?

Rear and Side-view Mirrors

Where Are We? ----- Predictions from 2022

 Ransomware evolving – more automation – 2/3 of attacks by low-level threat actors using ransomware tools (RaaS)

Beyond Double Extortion – Ransomware gets even more disruptive

 Data extorsion is predicted to surpass traditional encryption in 2023. Combination attacks increasingly common

Legitimate IT management tools used as malware

-SolarWinds, Kaseya (REvile's attack of legit software update processes - \$70M ransom demand)

Supply Chain Attacks

- SolarWinds Orion, Log4j
- Quanta Apple's major business partner; \$50M ransom demand.
 - Turned to target Apple and released product blueprints
- List of "terrorist organizations" that can't be paid ransom will increase

* Where Are We?

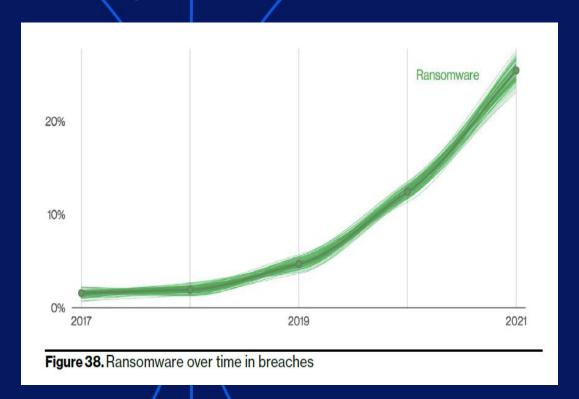
2022 Verizon Data Breach Investigation Report: Financial and Insurance Industry

- Organized crime responsible for 79% of breaches compared to 49% in 2018
- Discovery method of Actor disclosure is at 58% compared to 5% in 2016
- Denial of Service (DoS) attacks are twice as common in security incidents for the vertical
- Of 2,527 incidents, 690 with confirmed data disclosure: 73% external, 27% internal Threat Actors

IBM X-Force 2022 report

- 37% of ransomware attacks from the prior year were REvil ransomware actors
- REvil shut down after 31 months, average gangs persist for ~17 months repeat actors, new organization
- For the first time:
 - Attacks against Manufacturing overtook Financial services
 - North America was the 3rd most attacked region behind Asia

Verizon Data Breach Investigations Report - 2022



- Ransomware isn't showing signs of slowing down - RaaS
- Third parties and supply chains will continue to be a major contributor to propagation of cyber incidents

- Secureworks Emerging Cybersecurity AiteNovarica Top 10 Trends in Cybersecurity, Trends to Watch in 2023 2023 Presidio's 2023 Cybersecurity •Forbes' The Top Five Cybersecurity Trends In **Predictions** 2023 F5 Labs: 5 Cybersecurity Predictions for •Splunk's Predictions 2023: Strategies for 2023 Turbulent Times Forrester APAC Predictions 2023: WatchGuard's 2023 Cybersecurity Cybersecurity And Risk **Predictions** •Forrester Predictions 2023: Security Pros Face Spiceworks 12 Cybersecurity Trends Greater Internal Risks Every CISO Must Prepare for in 2023 Sophos 2022 Threat Report 2023 Cybersecurity Predictions From Cybersecurity Trends: IBM's Predictions for CrowdStrike 2023 Verizon's 2022 Data Breach DCMS cyber security newsletter - January Investigations Report and IBM X-Force 2023 2022 Report
- Open Access Government: What cybersecurity KrebsOnSecurity
 trends can we expect to see in 2023
 NIST and National Cybersecurity Center

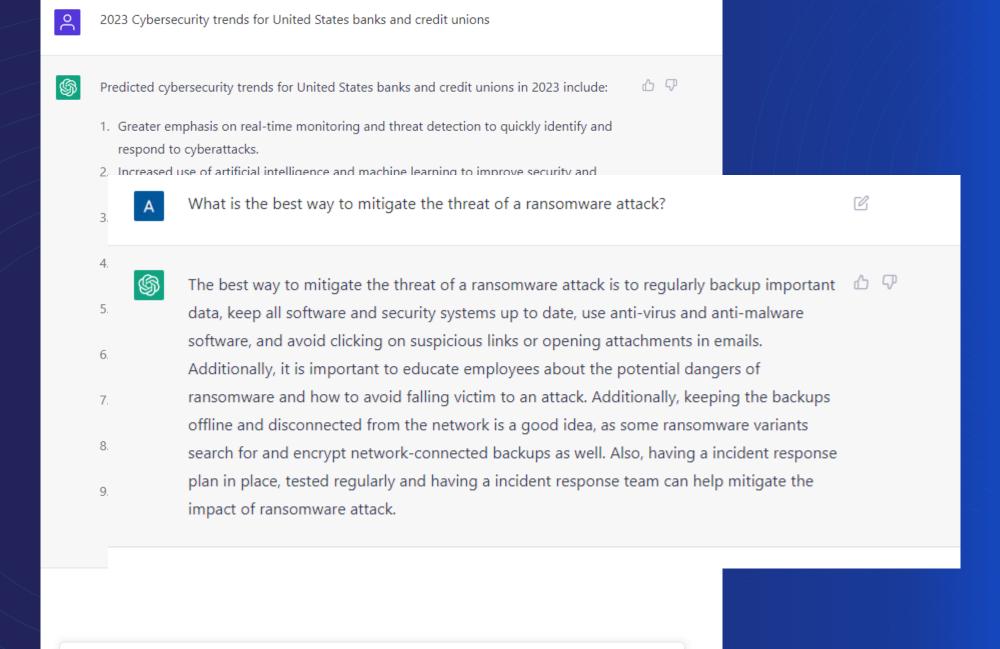
What's Ahead

Through the windshield and traffic report

• What's Ahead?

- Surge of Endpoint Detection and Response (EDR/ETDR | XDR) evasion tools for sale on the dark web
- Fraud, cybersecurity, IT Operations consider convergence - Fusion Centers
- Artificial Intelligence (AI) used widely in attacks
 - Personalized and convincing Phishing
 - Evasion of automated email defense systems
 - Clone voices of senior executives for transaction authorizations
 - ChatGPT (launched November 30, 2022)

ChatGPT



• What's Ahead?

- Geopolitical tensions driving nation-state cyber attacks
- Triple Extortion or more Ransomware tentacles expand
 - From Encryption of Data/Systems to extortion of business partners, combined DDoS attacks, business partners
- Economic constraints driving more targeted and effective security
 - Vulnerability management playing an increasingly important role
- Shadow APIs
- Multi-Factor Authentication defeated
- Cyber insurance passing more cost to insured and increased security requirements

How do we Plan Forward?

We have found a better route

- How do we Plan Forward
- Leverage Indicators of Compromise (IOCs) with live analytics
- Specialists -> Generalists
 Fundamentals as important as ever
 - Decrypt for Security Inspection
 - Identity and Access Management (IAM)
- Zero Trust and Reduced Trust -a foundation for digital transformations





How do we Plan Forward



Fundamentally Important:

Fast track critical security fixes. Test and patch promptly

Prioritize detection and response strategies

When not if

Concentrate protections
 Utilize Risk Assessments to most effectively build and refine security strategy

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