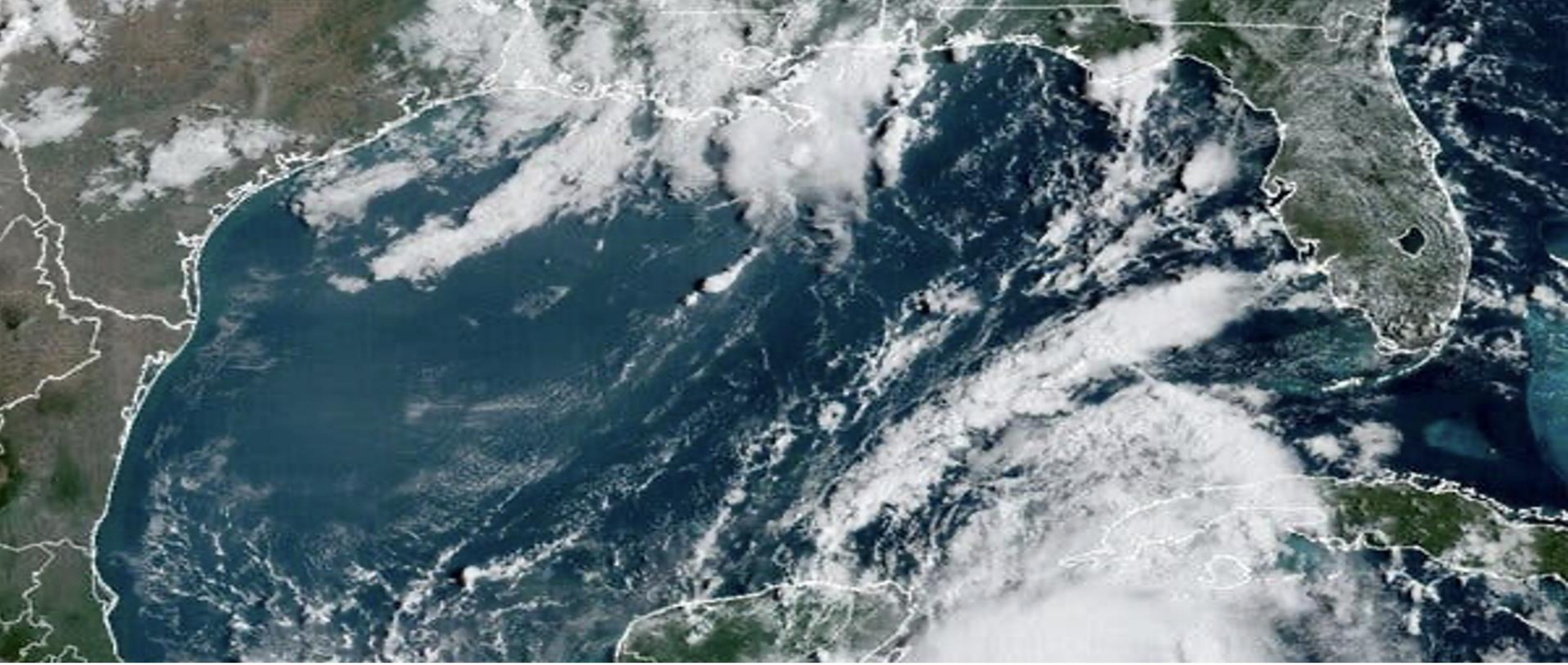
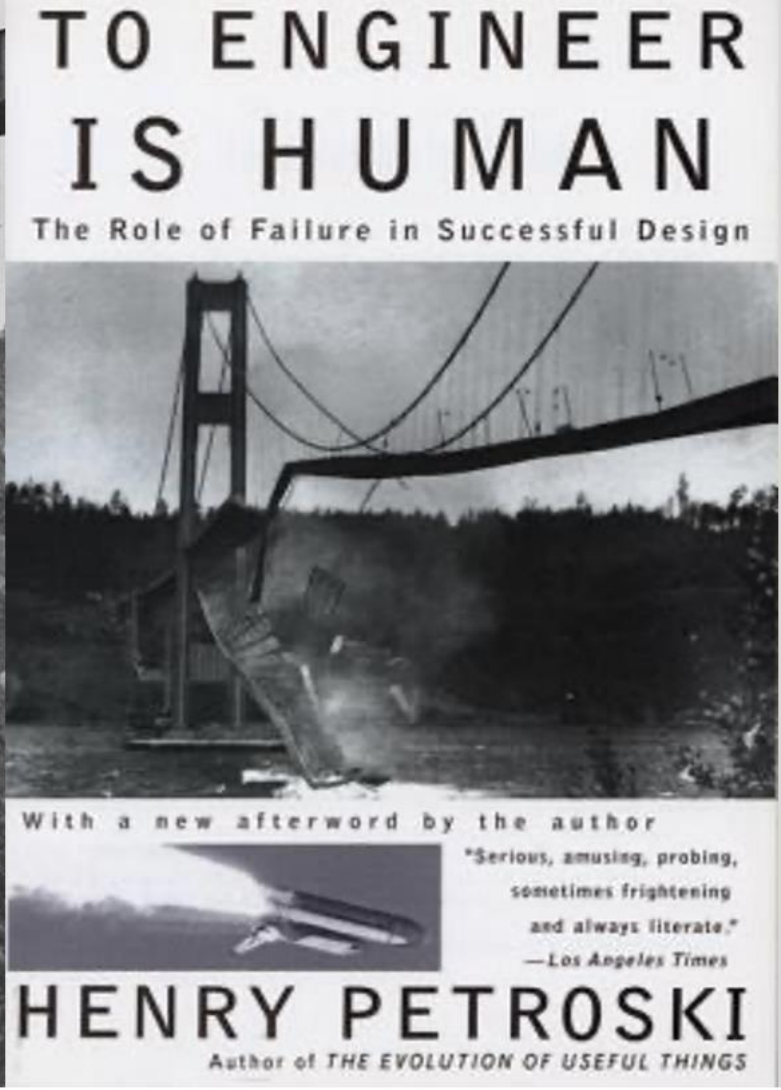
What Can We Learn from Major Cyber Catastrophes?



Hurricanes: Partially Controllable by Humans



Bridge Collapses: Mostly Controllable by Humans

Space Exploration Risk: Mostly Controllable by Humans

Cybersecurity Incidents: Fully Controllable by Humans

Numerator:
"Visit Mars"

Denominator:
"Space Deaths"

Observation: You can measure the success of an industry by dividing its achievements by its failures.

Numerator

Value Equation for Cyber

Success of Cybersecurity: Technologies That Enable Innovation, Automation, and Progress

---

Failure of Cybersecurity: Malicious Hacking, Break-Ins, Breaches, Disruptions and other Incidents

Let's spend time reviewing the denominator of this equation

Denominator

What Can We Learn from Major Cyber Incidents?

40 Million Credit Cards Stolen from Target

- Hacked third-party vendor access unnoticed from 12/2/13 to 1/16/14
- CEO and CIO of Target apologized and resigned
- Remediation/legal costs: $162M (Target) and $200M (Banks)

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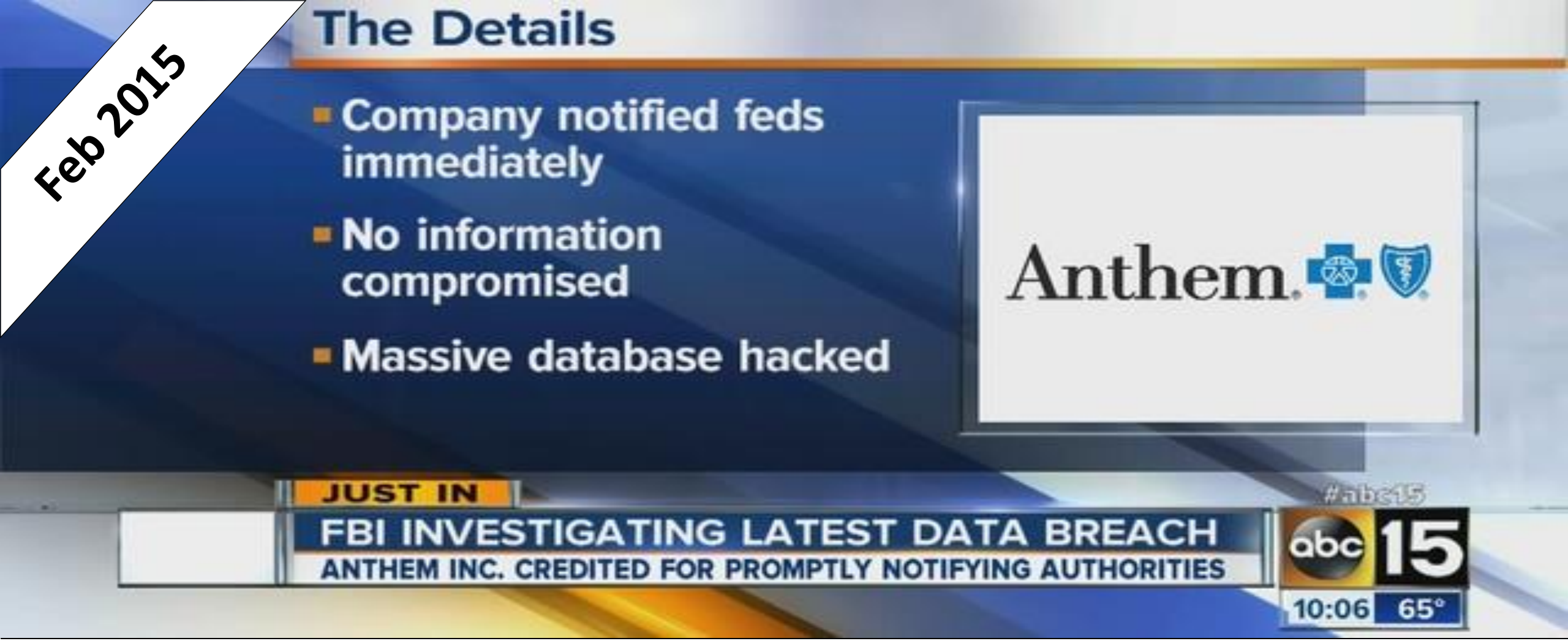

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- Abnormal system behavior went unnoticed for several months
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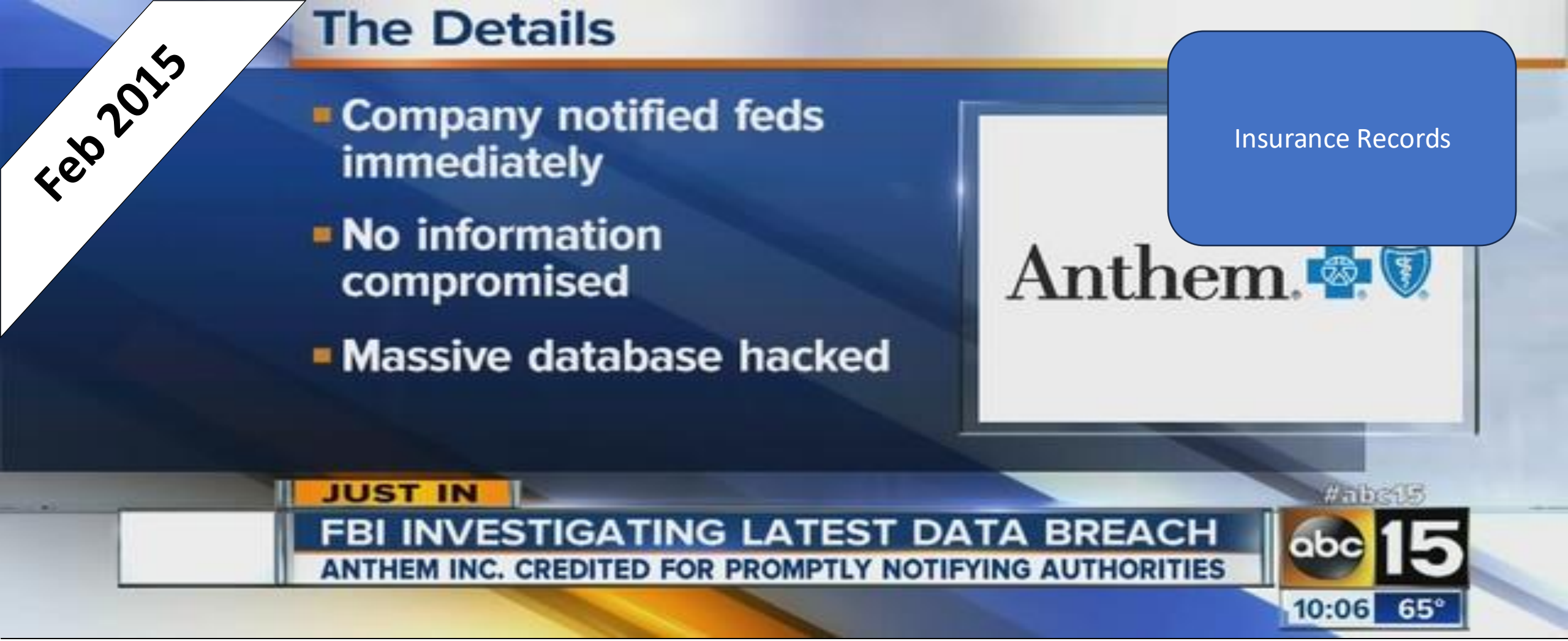

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Oct 2015

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T-Mobile CEO on Experian's Data Breach

I've always said that part of being the Un-carrier means telling it like it is. Whether it's good news or bad, I'm going to be direct, transparent and honest.

We have been notified by Experian, a vendor that processes our credit applications, that they have experienced a data breach. The investigation is ongoing, but what we know right now is that the hacker acquired the records of approximately 15 million people, including new applicants requiring a credit check for service or device financing from **September 1, 2013**

15 Million T-Mobile Records via Experian Breach

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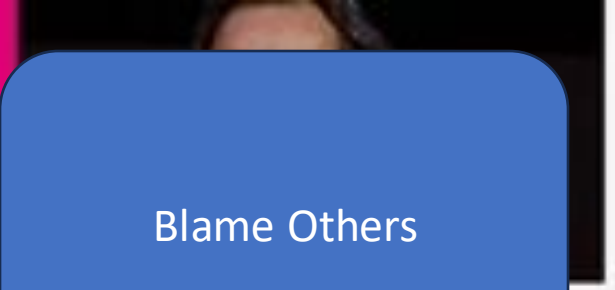
- Name, address, SSN, birth date, passport/driver's license, etc.
- "T-Mobile's Legere 'Incredibly Angry' about Breach" – News Reports

Oct 2015

Letter to Consumers



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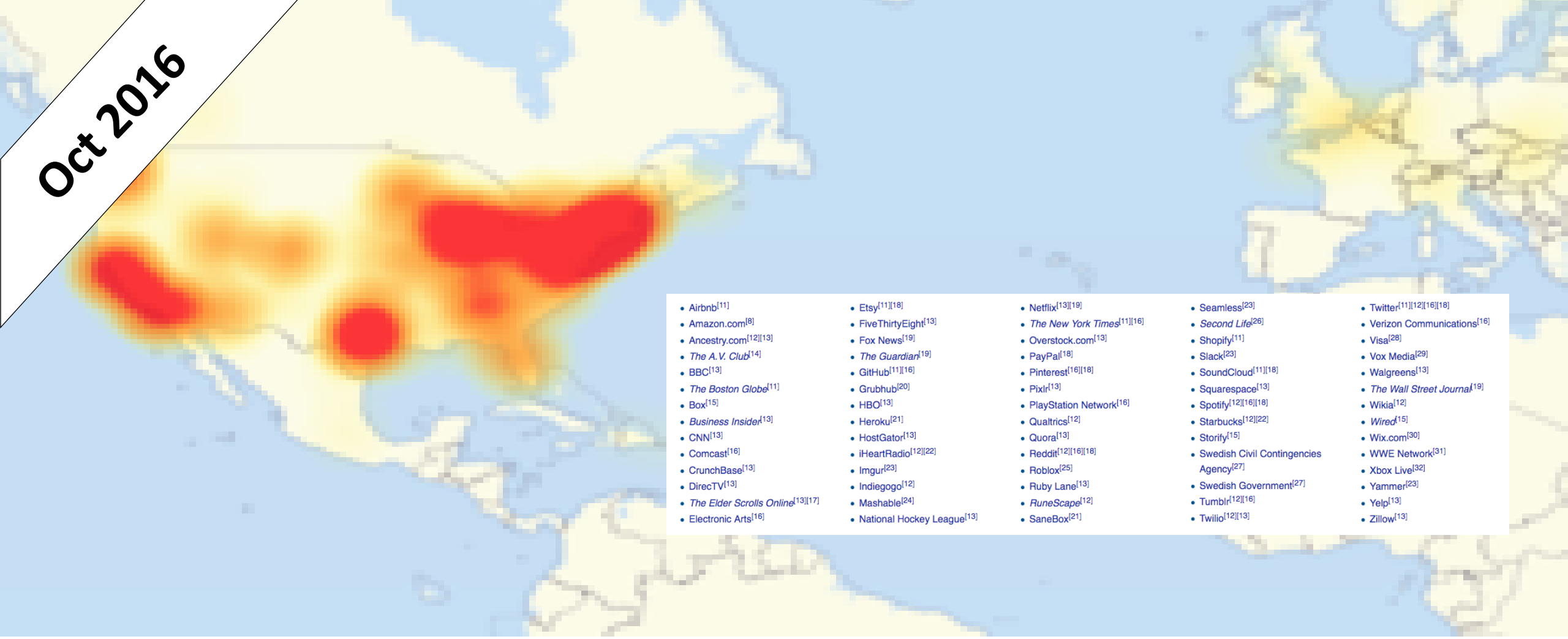

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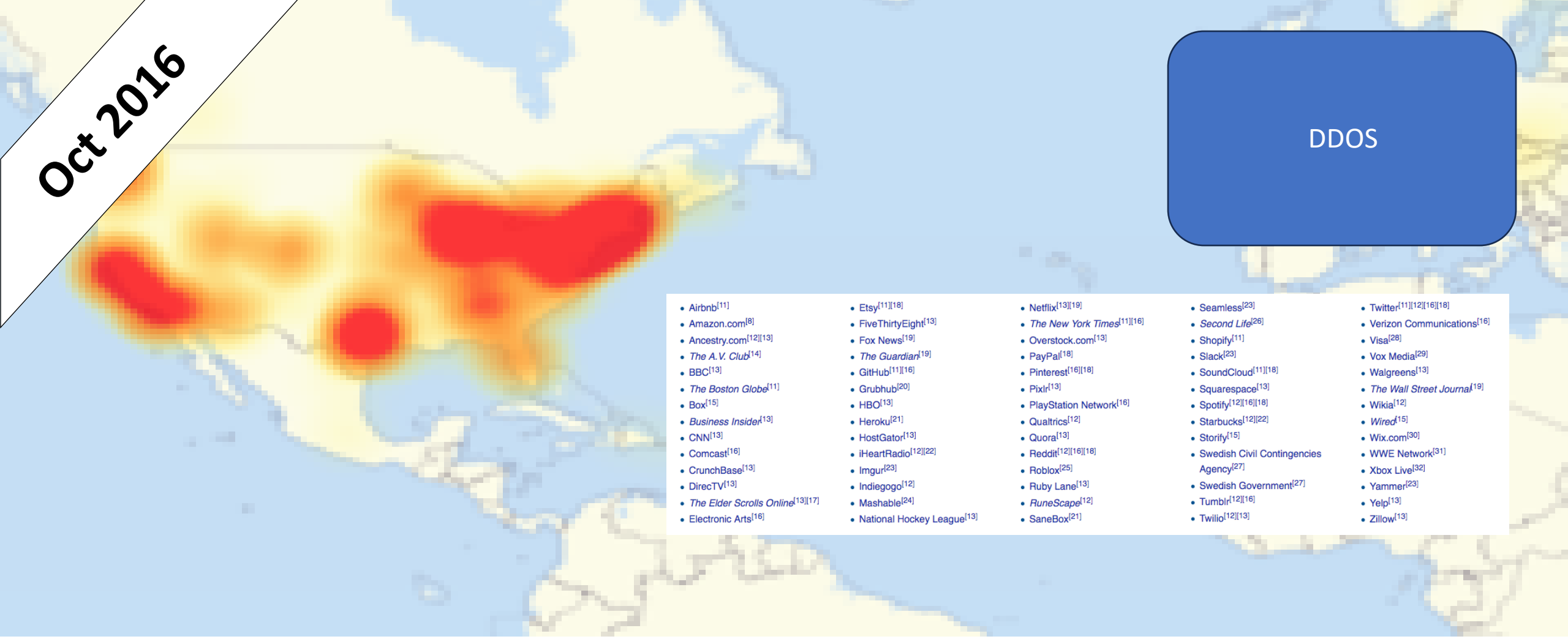

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US Election "Information" Attacks

- Difference between "cyber superiority" and "information superiority"
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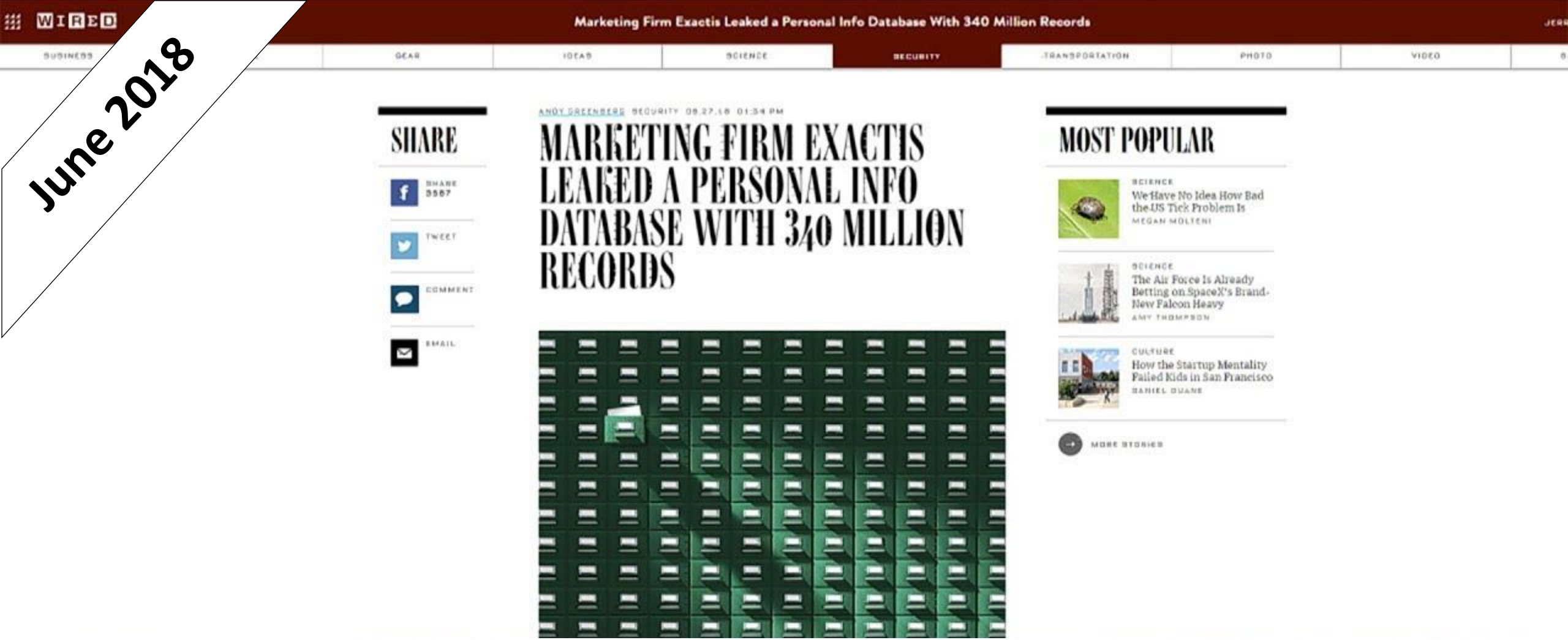

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June 2018

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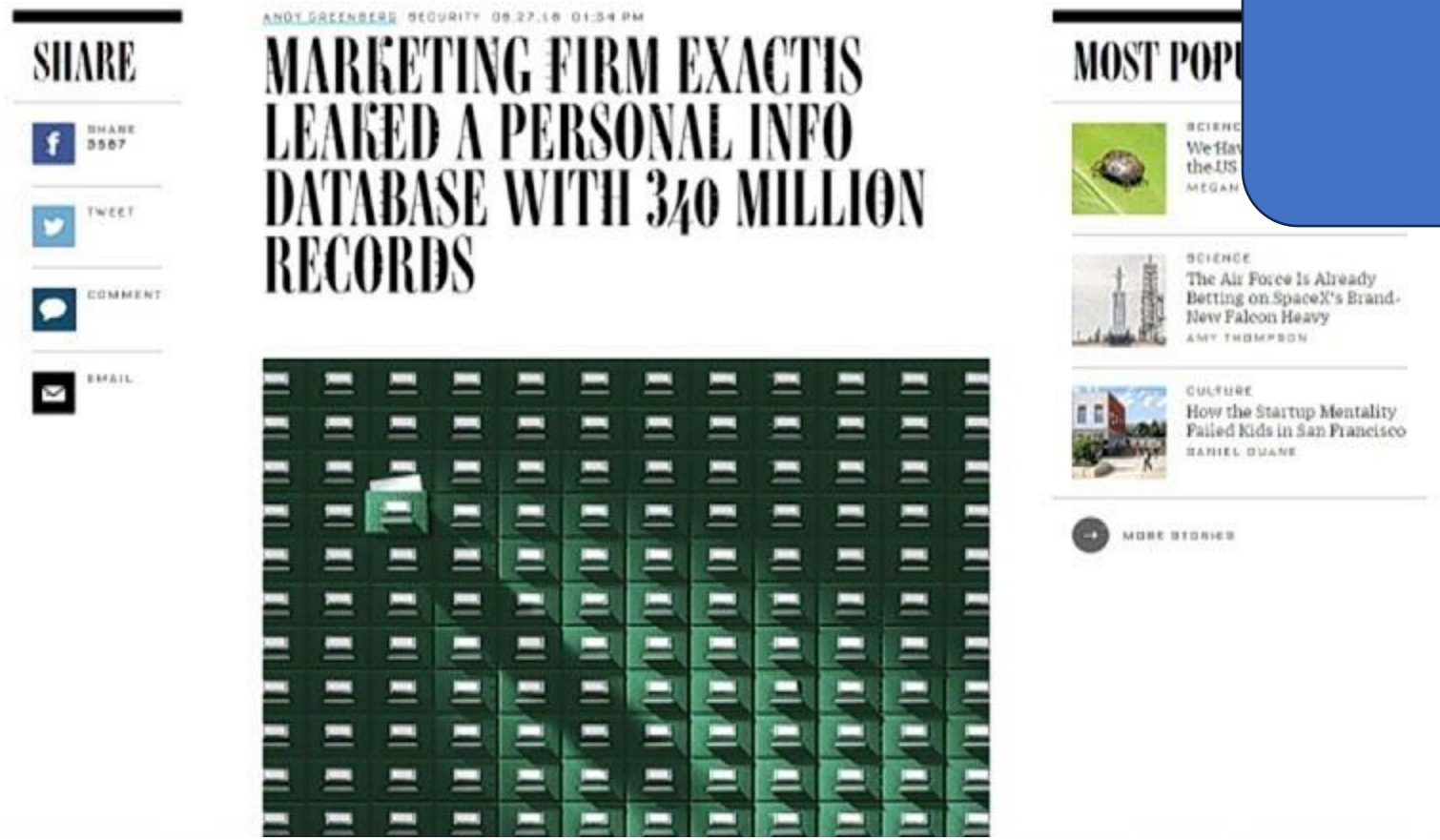

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Apr 2020

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Apr 2020

Work from Home

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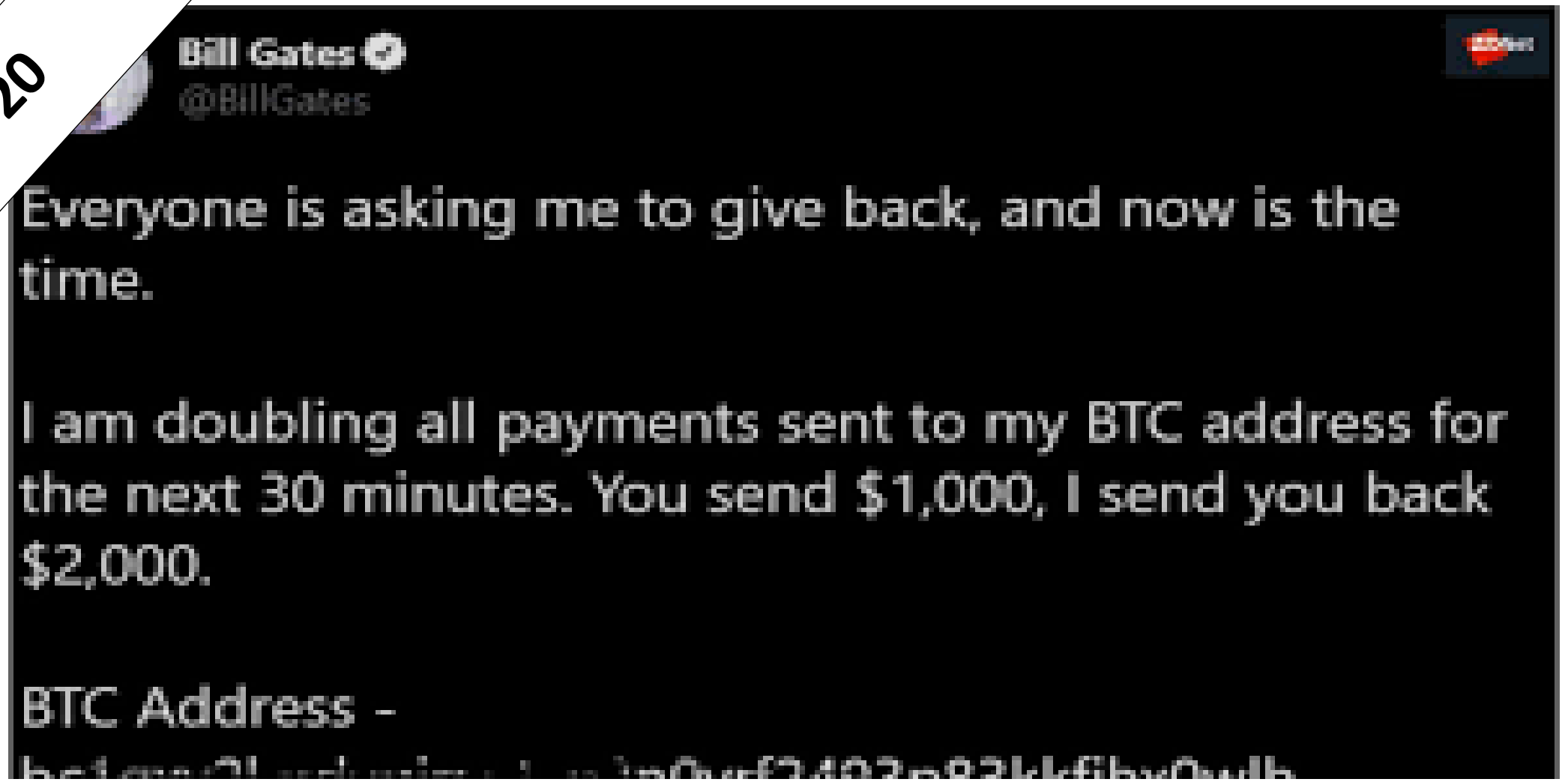
Jul 2020



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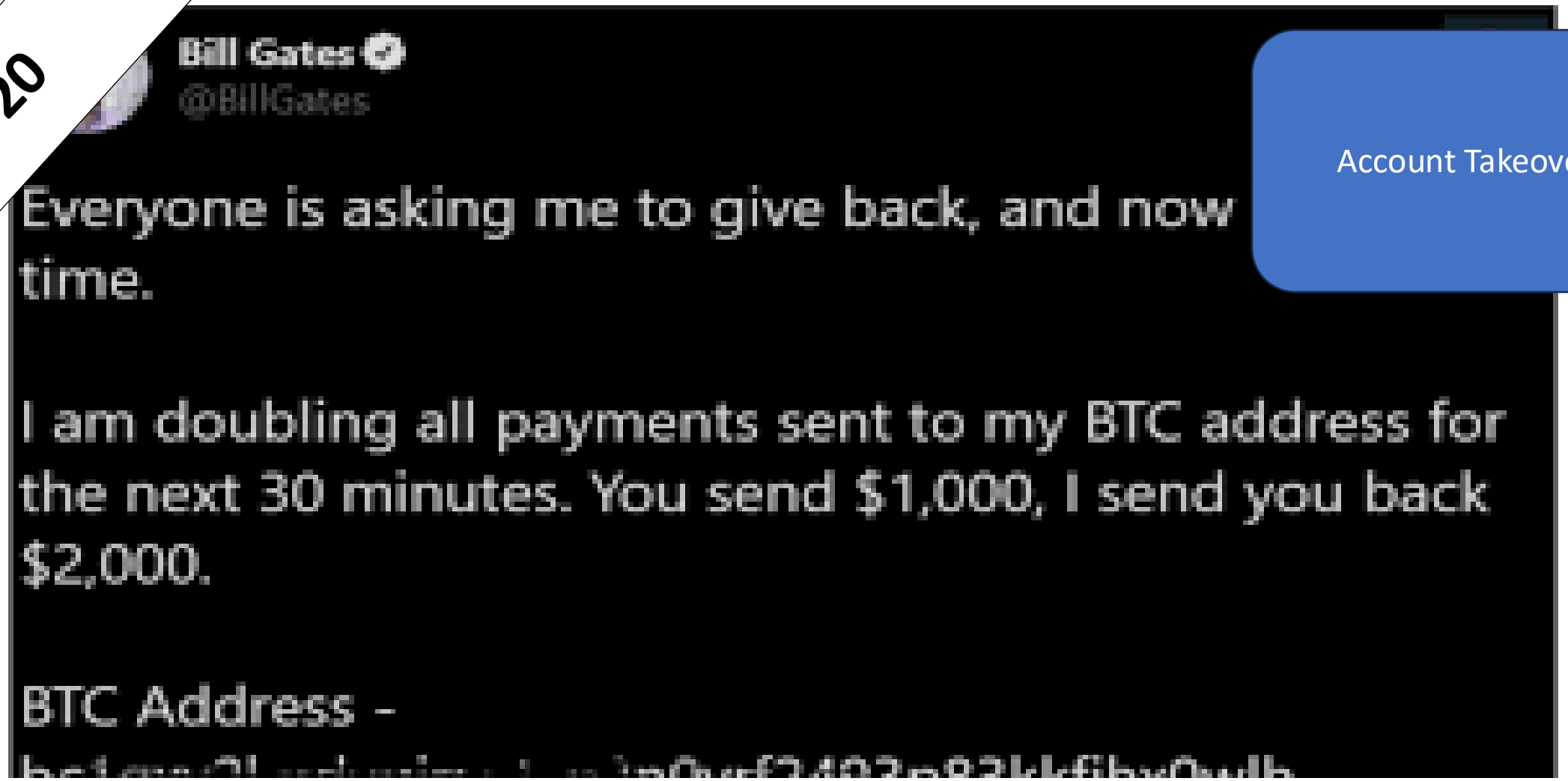

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Jul 2020

Edward Amoroso posted this

Why I Don't Support Mudge's Decision.

Edward Amoroso on LinkedIn

August 24, 2022

You and 441 others 288 comments

118,652 impressions View analytics

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May 2021

OT Security

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Dec 2021

Apache Log4j 2

Apache Log4j 2 is an upgrade to Log4j that provides significant improvements over its predecessor, Log4j 1.x, and provides many of the improvements available in Logback while fixing some inherent problems in Logback's architecture.

Important: Security Vulnerability CVE-2021-44832

Summary: Apache Log4j2 vulnerable to RCE via JDBC Appender when attacker controls configuration.

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Apache Log4j2 versions 2.0-beta7 through 2.17.0 (excluding security fix releases 2.3.2 and 2.12.4) are vulnerable to a remote code execution (RCE) attack where an attacker with permission to modify the logging configuration file can construct a malicious configuration using a JDBC Appender with a data source referencing a JNDI URI which can execute remote code. This issue is fixed by limiting JNDI data source names to the java protocol in Log4j2 versions 2.17.1, 2.12.4, and 2.3.2.

Mitigation

Upgrade to Log4j 2.3.2 (for Java 6), 2.12.4 (for Java 7), or 2.17.1 (for Java 8 and later)

Log4J Vulnerability

- 1.8 million probes against half of corporate networks launched in December 2021
- Evidence of nation-state involvements using 70 malware families
- Actual impact is unknown so far (stay tuned)

Dec 2021

Vulnerability Management

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Dec 2022

LastPass Loses Passwords to Hacker

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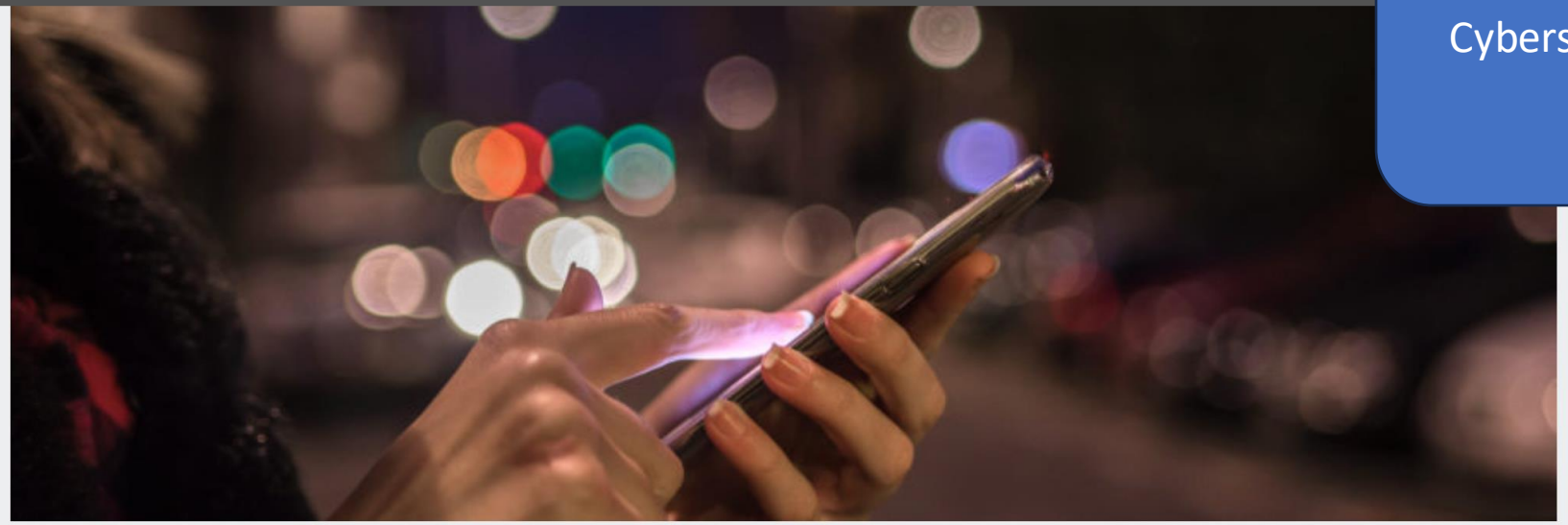
- Issue calls into question safety of password managers

Dec 2022

Cybersecurity Vendor

LastPass ••• | PERSONAL BUSINESS SUPPORT ENGLISH Get LastPass Free

Blog > Product Updates > Notice of Recent Security Incident



Karim Toubba

December 22, 2022 | By Karim Toubba

Notice of Recent Security Incident

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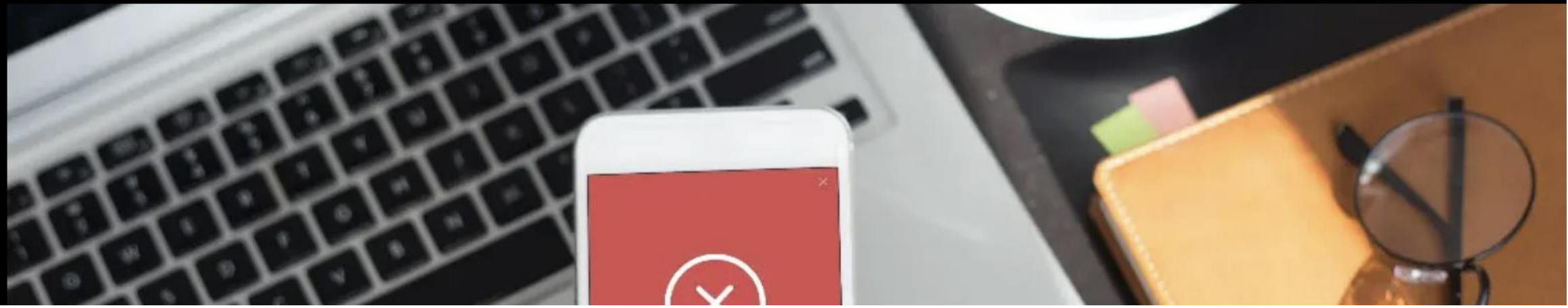
May 2023

urity Intelligence

ChatGPT Confirms Data Breach, Raising Security Concerns



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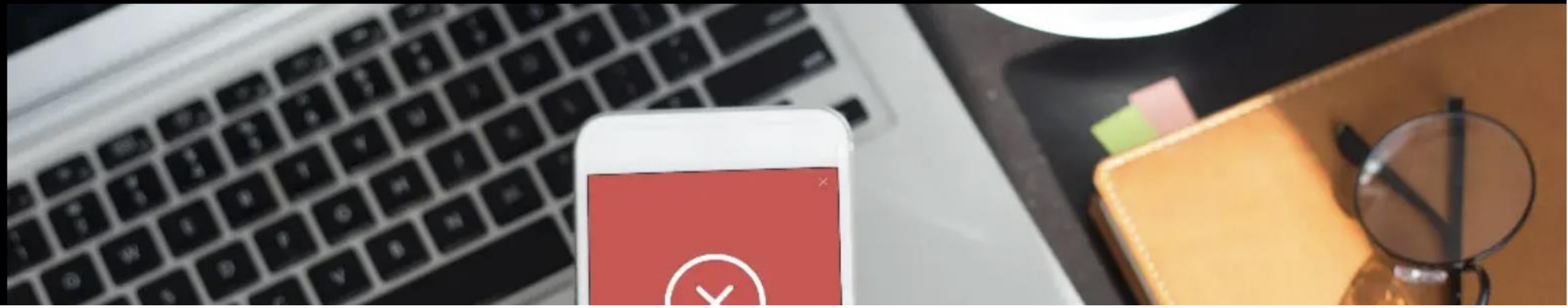

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May 2023

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May 22, 2023 · 6:19 PM ET

Shannon Bond

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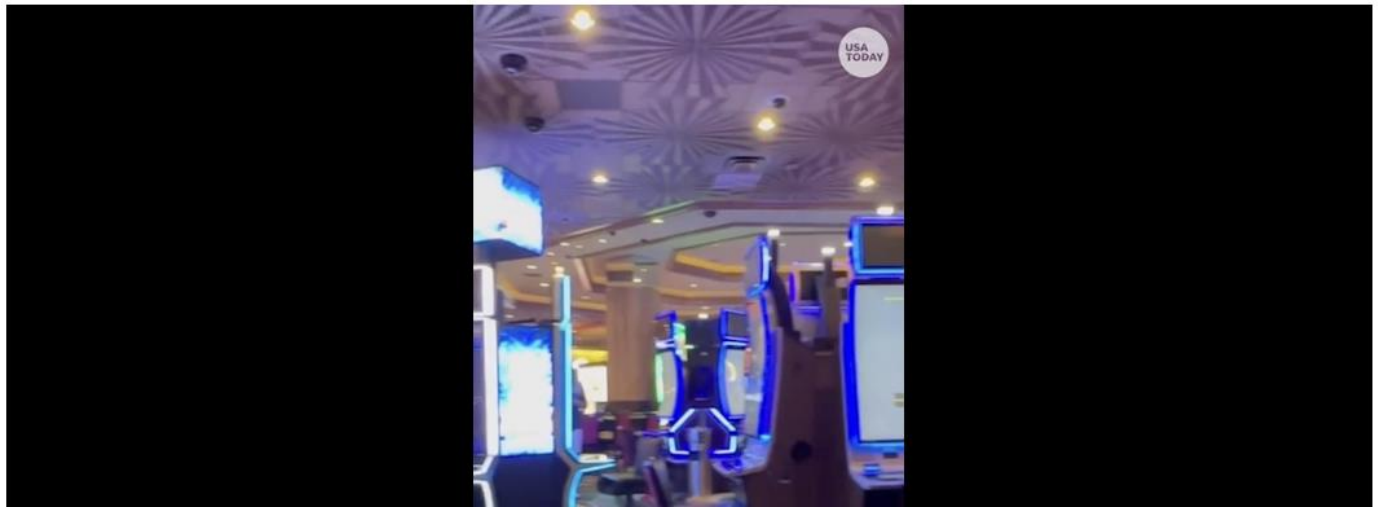
Aug 2023

MGM Resorts properties in US shut down computer systems after cyber attack

Amaris Encinas USA TODAY

Published 8:02 p.m. ET Sept. 11, 2023 | **Updated 7:43 p.m. ET Sept. 13, 2023**



Cyber-Attack Degrades Operations at MGM

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- Moody's reports that "attack appears to have material impact on MGM"
- Lateral movement implies wide attack span of control across MGM network

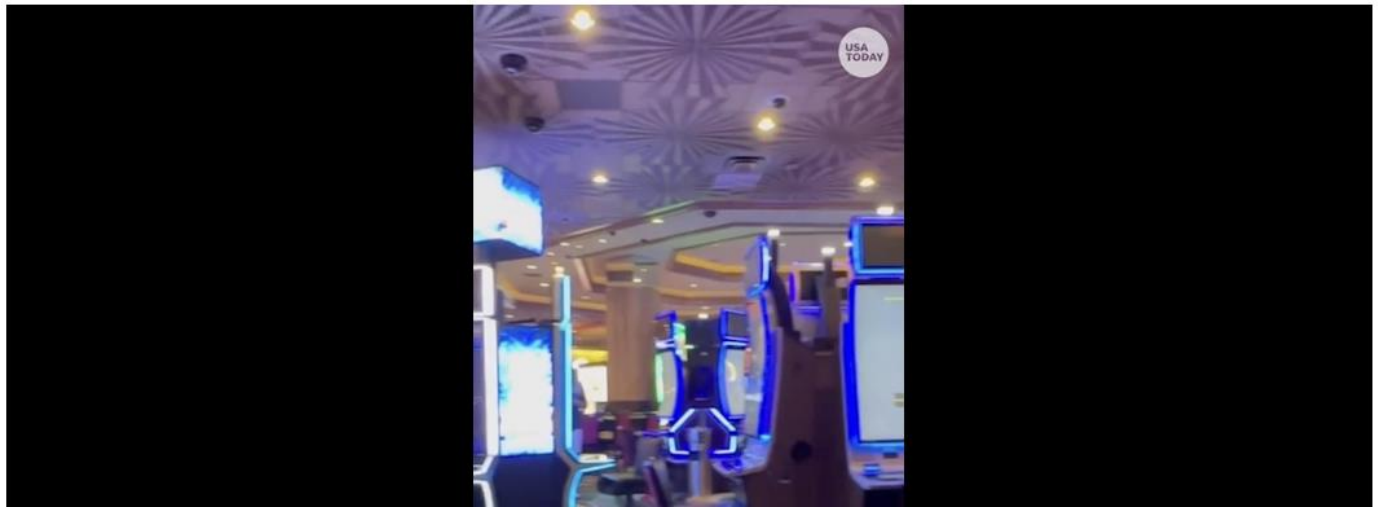
Aug 2023

Operational Shutdown

MGM Resorts properties in US shut down computer systems after cybe attack

Amaris Encinas USA TODAY

Published 8:02 p.m. ET Sept. 11, 2023 | **Updated 7:43 p.m. ET Sept. 13, 2023**



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Dec 2023

Security

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Lorenzo Franceschi-Bicchierai @lorenzofb / 12:56 PM EST • December 4, 2023 Comment

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Jan 2024

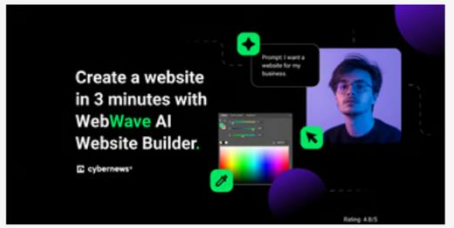
Mother of all breaches reveals 26 billion records: what we know so far

Updated on: January 29, 2024 10:07 AM 3

Vilius Petkauskas, Deputy Editor

Image by Cybernews.

Partner content



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Editor's choice

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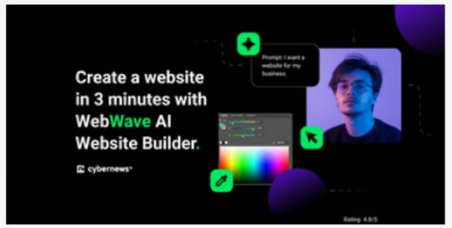

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Change Healthcare cyberattack

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MFA Weaknesses

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Mar 2024

DALLAS, March 30, 2024

AT&T Addresses Recent Data Set Released on the Dark Web

AT&T has determined that AT&T data-specific fields were contained in a data set released on the dark web; source is still being assessed.

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Hackers Cryptanalyze AT&T Data

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- Evidence surfaced that data had finally been cryptanalyzed
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Mar 2024

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Nation-State Targets Presidential Candidate

- Murky details on this presumed attack by a nation-state on Trump campaign
- Lack of confidence in anything reported by Trump cloud confidence here
- FBI reports that this is part of an on-going attack at both US parties

Aug 2024

Political Sabotage

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SECURITY

U.S. confirms Trump campaign claim it was breached by Iranian hackers

The FBI, the Cybersecurity and Infrastructure Security Agency and the Office of the Director of National Intelligence said Iran was behind attempts this year to hack the presidential campaigns of both political parties.

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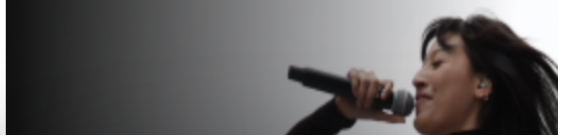
Chinese hackers breach US treasury network, gain access to some files

Third-party cybersecurity provider was compromised after hackers obtained key to override certain systems



U.S. Treasury Compromised by BeyondTrust Hack

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- Tough when the security tool is the source of breach

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Hacked Security Tool

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We just covered:

Third-party breach. Password Problems, Dwell Time, Security Budget, Destructive attack, Insurance Records, Class Action Lawsuits, CISO Salaries, Advanced Persistent Threats (APTs), Bad Response, Blame Others, Bad Account Inventory, Attempt to Kill, Public Data Aggregation, Selling Stolen Data, Compliance Issue, Legacy System, DDOS, Fake News, Ransomware, Open Source, International, Bug Bounty, Big Data, Massive Attack, Cloud Security, Security Metrics, Work from Home, Account Takeover, Software Supply Chain, OT Security, Vulnerability Management, Hacking Groups, Mobile Apps, Cybersecurity Vendor, AI, Deep Fake Images, Operational Shutdown, 2FA Attack, Aggregated Attack, Cryptanalysis, Political Sabotage, . . .

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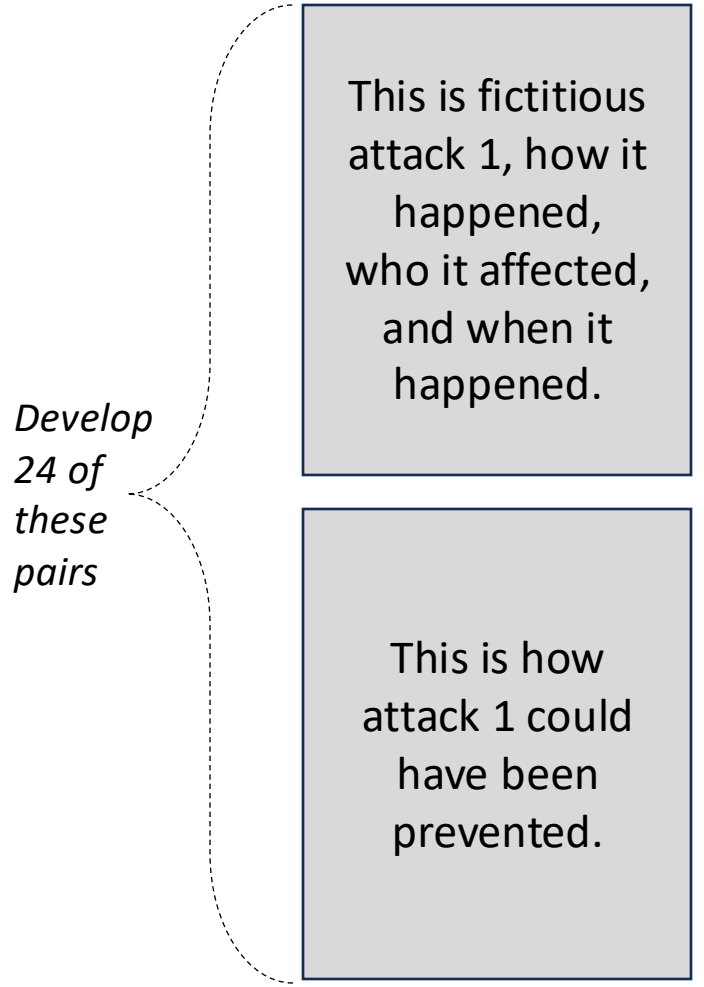


Why Do These Hacks Continue to Happen?

For small, simple things:
I know how they work.
I don't know what they do.

It is easy to protect these
things from hacking or tampering.

For large, complex things:
I know what they do.
I don't know how they work.

It is difficult to protect these
things from hacking or tampering.

What Can Cybersecurity Learn from Bank Robberies?


R3
5437
(1931)
K5440

Foot activated hold-up station Robby

Foot activated hold-up station

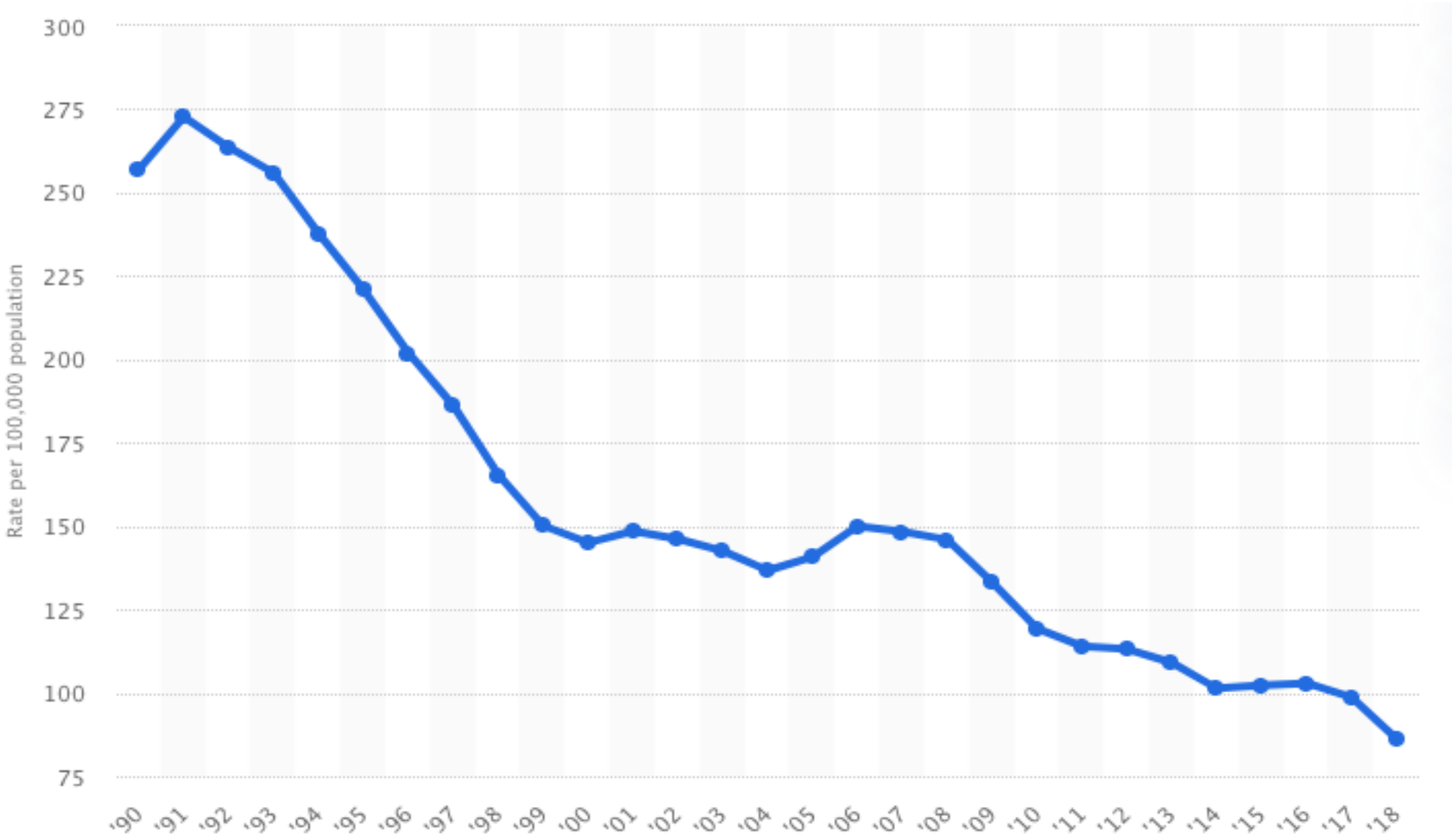
Reliable easy to operate foot activated hold-up device
Operated by lifting the foot tip
Foot activated robbery & panic station
Foot activated hod-up station with rugged metal housing
Designed to minimize the possibility of false alarms
Foot operated panic and robbery station
Designed for high-end security applications
Foot activated panic station for distress Alarm System (DAS)
Applicable for bank branches, diamonds & jewelry shops
Foot activated hold-up station used in banks and change kiosks
Send silent alarm to local or remote security center

SKU: Robby_TGL, Robby_TGO

Add to RFQ

1

Societal Goal for Hacking: Robbery Rate in the US



Long-Term Goal for Cybersecurity

To reduce the risk of cyber threats to the point where they no longer represent a significant and present danger to society (like bank robberies).