

### Welcome to





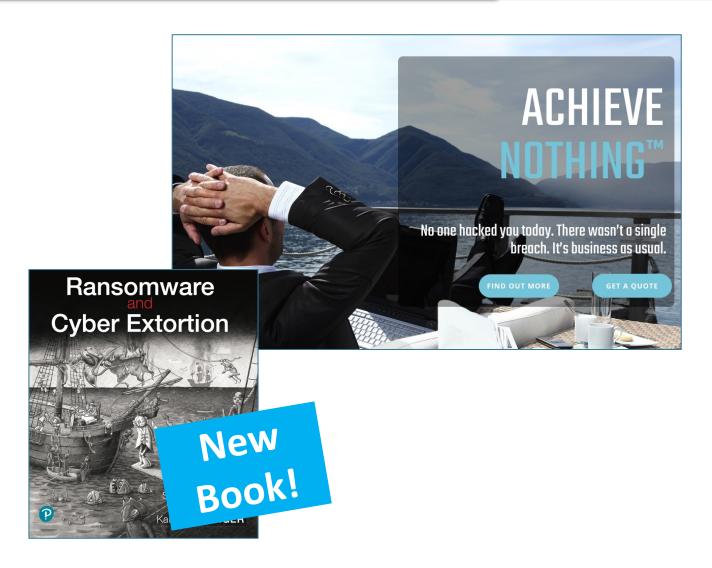
# Cybersecurity: Getting the Most Bang for Your Buck!



February 16, 2023

### Today's Speaker

- Sherri Davidoff
- Founder & CEO, LMG Security
- 22 years as a cybersecurity professional
- MIT, EE/CS & Network Security
   Team
- Training: PCBS, FDIC/FFIEC, ABA, IRS, Black Hat & more
- Author of "Data Breaches"
- New Book!
  - "Ransomware & Cyber Extortion"





### Thanks, PCBS!



The National Graduate School of Banking™





### "How Much Should We Spend on Cybersecurity?"

The answer is...

• It depends!

(You knew that was coming...)







### The Costs of Insecurity are Rising...

Cybersecurity incidents are VERY expensive

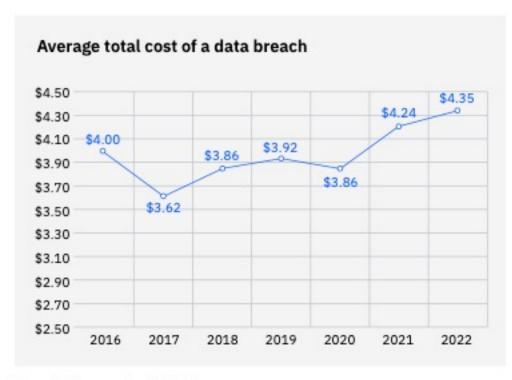


Figure 1: Measured in USD millions



Average cost of a breach in the United States, the highest of any country



### Impacts of Cyber Attacks Go Beyond Direct Cash Loss

Increased costs of notifying customers

Impact on brand and reputation

Loss of customers

Greater difficulty attracting customers

Solvency was threatened

Received a substantial fine

Loss of business partners

Hiscox, Cyber Readiness Report 2022





### Pressure to Ramp Up Cybersecurity Programs

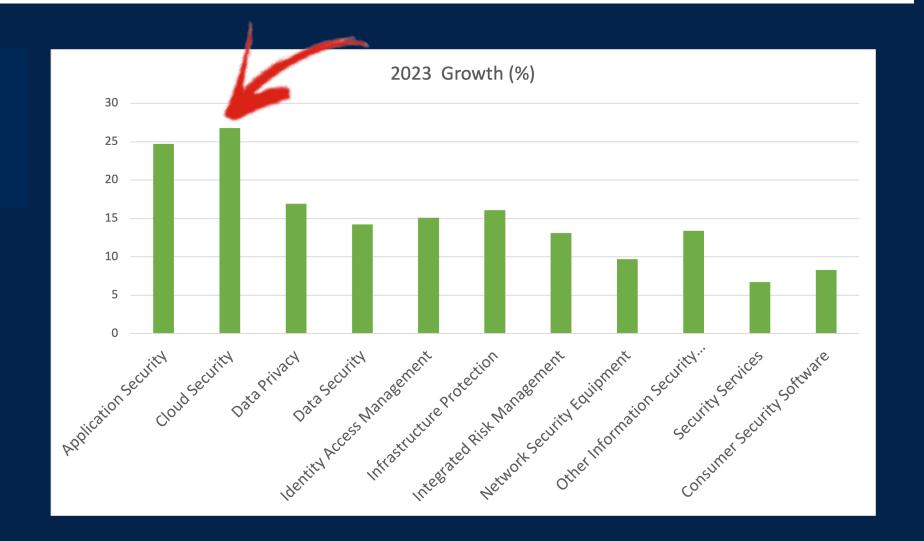
- Reduce risk of harm
- Regulator / examiner requirements
- Meet cyber insurer recommendations
- Customer demands
- Our communities
- & more



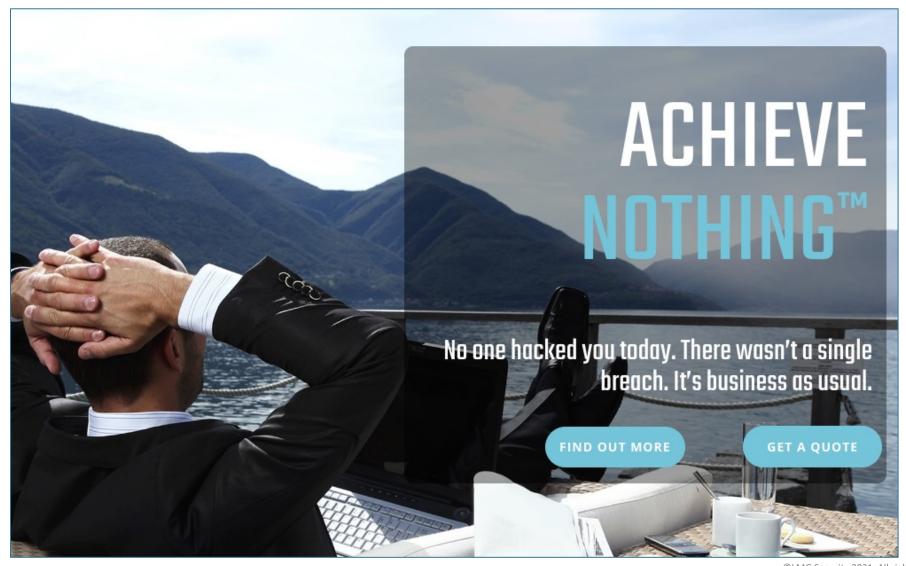


### Worldwide Spending on Security & Risk Management Forecast to Grow 11.3% in 2023

### Gartner



### The Ultimate Goal of Cybersecurity Spending





### **Getting Return on Investment**

#### Effectively reduce risk!

- Decrease likelihood of a negative event
- 2. Decrease **impact** of a negative event
- 3. Spend **efficiently**



(Risk = impact x likelihood)

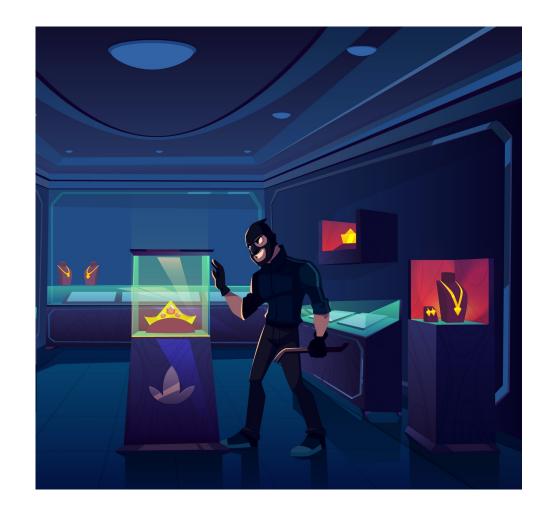
Image source:

https://www.securitymadesimple.org/cybersecurity-blog/how-to-calculate-the-roi-of-cybersecurity



### Running an Effective Cybersecurity Program

- Know What You're Trying to Protect
- Understand Your Obligations
- Monitor Your Risk
- Manage Your Risk
  - Top Cybersecurity Controls for 2023





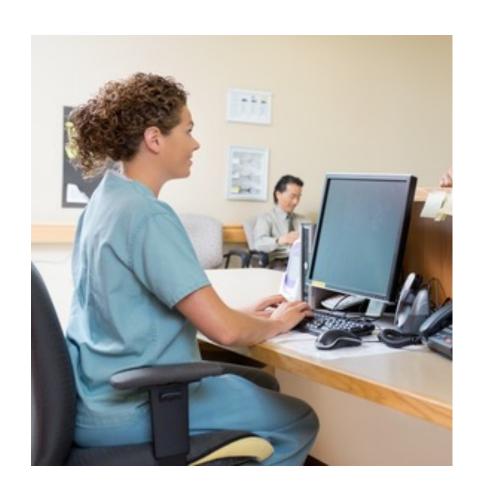
### The CIA Triad

- Confidentiality
- Integrity
- Availability





### What Systems and Services Do You Need to Protect?



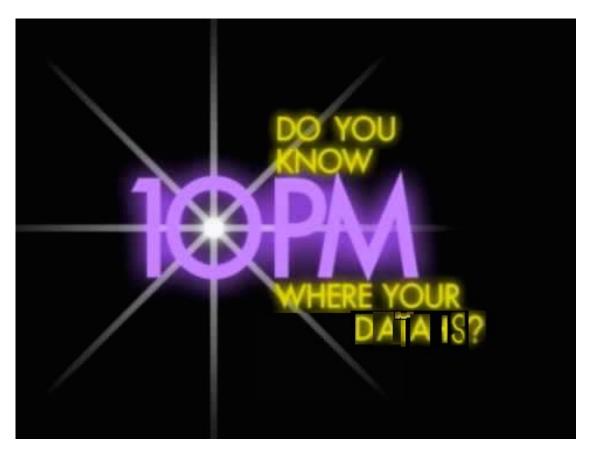




#### What Data Do You Need to Protect?

- Employee SSNs
- Customer Data
- Tax Returns
- Medical Info
- PII
- Corporate Credit Cards
- Driver's license scans
- Insurance information

- Intellectual Property
- Confidential Business Information
- Employee and Client Contacts
- IT Asset Inventories
- And more ...





### **Data is Hazardous Material**



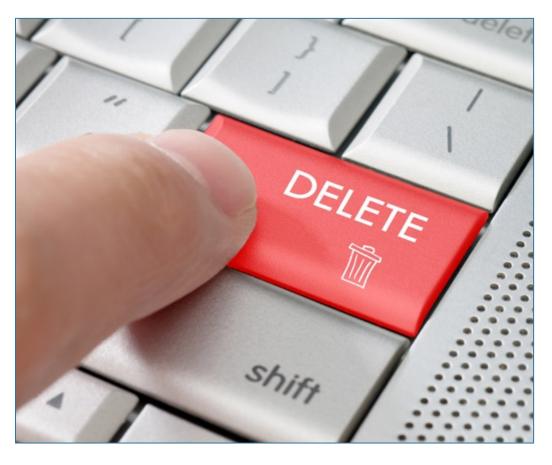


More Data == More Cost/Risk



### The Cheapest Way to Reduce Your Risk



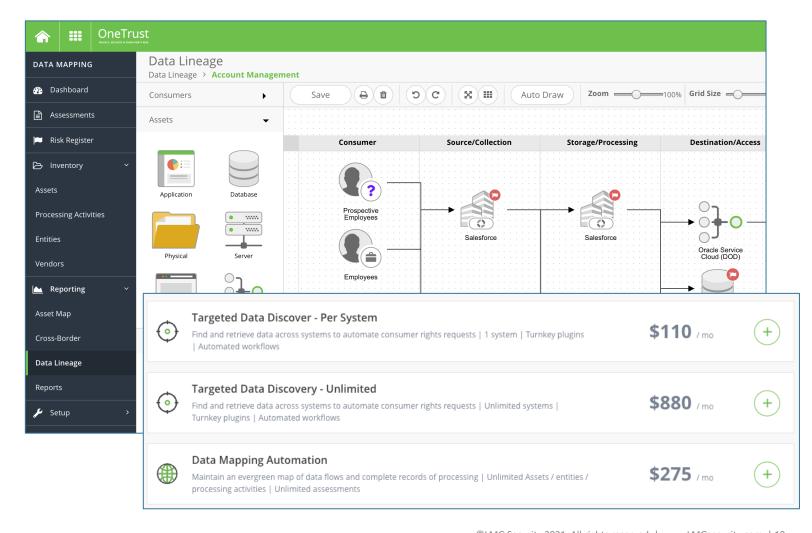






### **Routinely Conduct Data Discovery & Mapping**

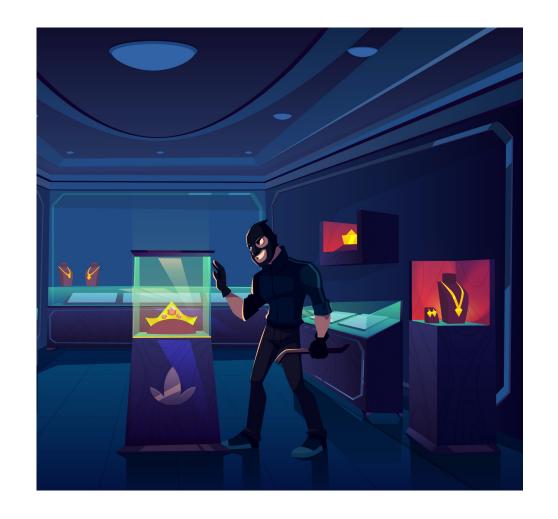
- Identify sensitive data
  - PII
  - Payment card info
  - Passwords
  - & much more
- Local Network & Cloud
  - (Built into some cloud platforms)
- Iterative Process
- Automated Tools





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### Cybersecurity Act Signed Into Law Creates New Reporting Obligations

Tuesday, March 29, 2022

President Biden recently signed into law the Cyber Incident Reporting for Critical Infrastructure Act of 2022 as a part of a larger omnibus appropriations bill. The new law sets out mandatory reporting requirements for critical infrastructure entities in the event of certain

cyber incidents and ransomware payments implementing regulations are issued (which a covered entities will be subject to two new repo

### Banks Must Report Cyber Incidents Beginning in May 2022

The SEC's Fast-Ap approved rules will mandate the reporting of security incidents next year.

# Cybersecurity Overhaul for Public Companies and Regulated Entities

As the SEC staff picks up the pace of cyber investigations, Chair Gensler continues the push to beef up the Enforcement Division's already meaty toolkit.

By Brian E. Finch, David Oliwenstein, Sarah M. Madigan

Morgan Stanley Smith Barney to Pay \$35 Million for Extensive Failures to Safeguard Personal Information of Millions of Customers

### FOR IMMEDIATE RELEASE 2022-168

Washington D.C., Sept. 20, 2022 — The Securities and charges against Morgan Stanley Smith Barney LLC (M

# Sephora fined \$1.2M in first public CCPA enforcement

By Adrianne Appel | Thu, Aug 25, 2022 12:47 PM

# Violations of New York Cybersecurity Regulations Result in \$4.5 Million Penalty

Published November 14, 2022 by Eric Rosenkoetter

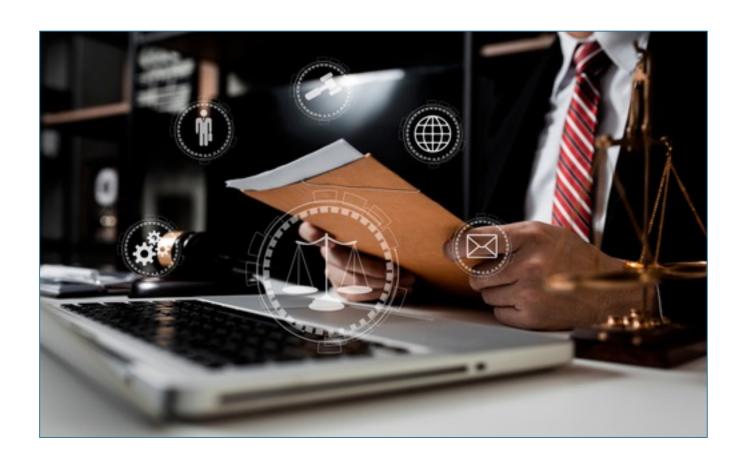
T-Mobile to pay \$350 mln in settlement over massive hacking

By Jonathan Stempel and Sara Merken



### **Consult a Qualified Data Privacy Lawyer**

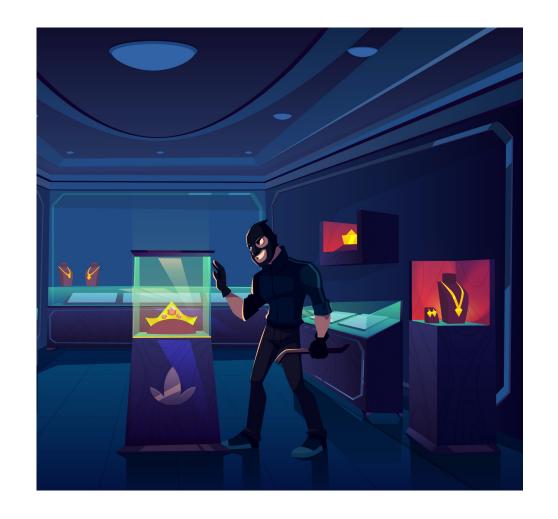
- Statement of Application Laws, Regulations and Obligations
- Oversight Responsibilities
- Outsource these decisions
  - (Lowers your risk)
- Laws evolve rapidly
- Highly specialized industry
- Annual review





### Running an Effective Cybersecurity Program

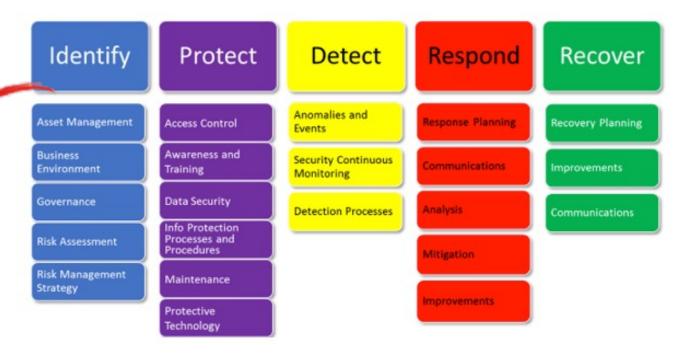
- Know What You're Trying to Protect
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  - Top Cybersecurity Controls for 2023





### **Monitoring Risk**

- Cybersecurity controls assessment
- 2. Technical testing
- 3. Risk assessment
- 4. Incident review



NIST Cybersecurity Framework



### **Conduct Technical Testing**

- Penetration Testing
- Vulnerability Scans
- Phishing Tests
- Threat Hunting
- Cloud Config Reviews

Align with Your Current Environment & Current Threats

## A hacker gained access to 100 million Capital One credit card applications and accounts

By Rob McLean, CNN Business

Updated 5:17 PM ET, Tue July 30, 2019

**CLOUD SERVICES / SECURITY** 

### Capital One's Cloud Misconfiguration Woes Have Been an Industry-Wide Fear

30 Jul 2019 1:13pm, by Lawrence Hecht





igure 44: Measured in USD millions

45%

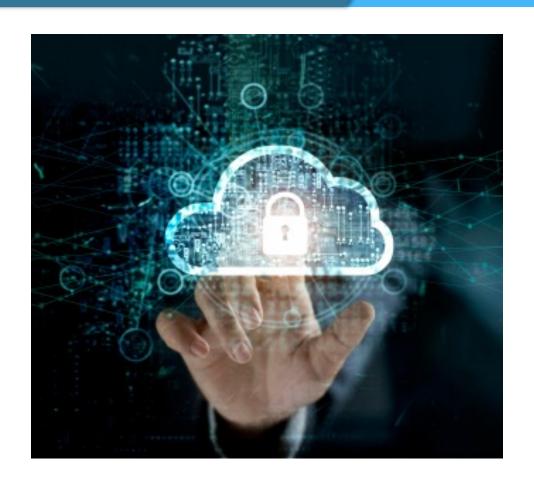
of the breaches were cloud-based.

IBM.



### **Conduct Cloud Configuration Reviews**

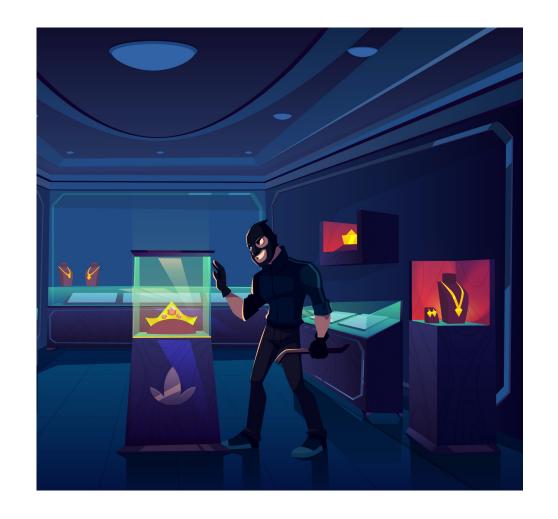
- ✓ Inventory your cloud apps & data
- ✓ Prioritize based on criticality & data sensitivity
  - ie M365, Sharepoint, GCP
- ✓ Conduct routine config reviews
  - Prevent BEC attacks, data breaches
- ✓ Integrate with security products
- ✓ Monitor alerts & notifications





### **Manage Your Risk**

- Know What You're Trying to Protect
- Understand Your Obligations
- Mobicor Your Risk
- Manage Your Risk
  - Top Cybersecurity Controls for 2023





### 3 Factors to Consider When Budgeting

#### A. What is your risk?

- Consider emerging threats
- Compliance / contractual requirements
- B. What is your organization's risk appetite?
- C. How much do you need to spend to get risk to a level where your organization is comfortable?







### Case Study: Missed Payment

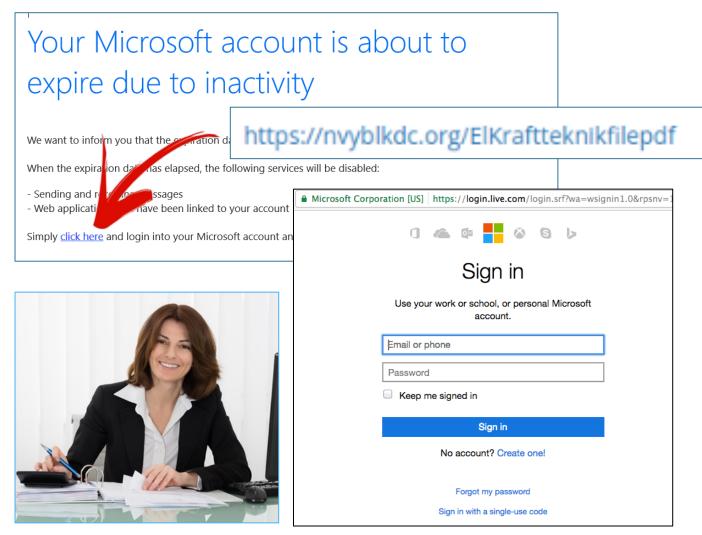
- Manufacturing Company
- Received notification that a payment to their insurance had not been received
- Bookkeeper sent the payment two weeks prior (\$160K)
- Payment was never received





### What Happened?

- New Bookkeeper
  - Only on staff for about 90 days
- Received a phishing email
- Entered credentials on a lookalike Microsoft O365 login page
- Adversary from Estonia accessed the account and redirected payment
- Money is gone!





### Business Email Compromise is the #1 Crime By \$\$

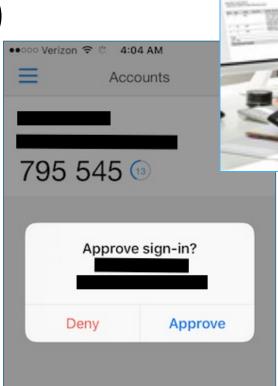
By Victim Loss			
Crime Type	Loss	Crime Type	Loss
BEC/EAC	\$2,395,953,296	Lottery/Sweepstakes/Inheritance	\$71,289,089
Investment	\$1,455,943,193	Extortion	\$60,577,741
Confidence Fraud/Romance	\$956,039,740	Ransomware	*\$49,207,908
Personal Data Breach	\$517,021,289	Employment	\$47,231,023
Real Estate/Rental	\$350,328,166	Phishing/Vishing/Smishing/Pharming	\$44,213,707
Tech Support	\$347,657,432	Overpayment	\$33,407.671
Non-Payment/Non-Delivery	\$337,493,071	Computer Intrusion	\$19,60
Identity Theft	\$278,267,918	IPR/Copyright/Counterfeit	\$16,31
Credit Card Fraud	\$172,998,385	Health Care Related	\$7,04
Corporate Data Breach	\$151,568,225	Malware/Scareware/Virus	\$5,5!
Government Impersonation	\$142,643,253	Terrorism/Threats of Violence	\$4,35





### **Use Multifactor Authentication**

- Authenticate = verify identity
  - Something you know (Type 1)
  - Something you have (Type 2)
  - Something you are (Type 3)
- Multifactor = more than one









#### **Duo MFA**

\$3 / User / Month

#### **Duo Access**

\$6 / User / Month

### **Duo Beyond**

\$9 / User / Month

### **Case Study: The Uber Hack**

- Hacker broke into Uber's corporate IT environment
- Gained full access to key servers and cloud platforms
- Posted screenshots & told media
- Hacker claims to be an 18-year-old
- Currently Uber says the "production" systems and sensitive user info is not affected
  - (Investigation is ongoing)

# Uber confirms hack in the latest access and identity nightmare for corporate America

Derek B. Johnson September 16, 2022



The Uber banner hangs outside of the New York Stock Exchange. Ride-share company Uber confirmed it was hacked in what appears to be a damaging compromise of internal systems and the company's accounts for multiple third-party services. (Photo by Spencer Platt/Getty Images)



#### **How They Got Hacked**

- Likely started with a contractor's hacked personal device
  - "infected with malware" (Uber 9/16/22)
- Corporate password sold on dark web
- Purchased & attackers tried to log in repeatedly
  - MFA blocked access
  - THWARTED!

(But wait, there's more...)



There are 24.6 billion pairs of credentials for sale on dark web



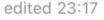
#### Hacker Bombarded the User's Phone

(I was spamming employee with push auth for over a hour) i then contacted him on WhatsApp and claimed to be from Uber IT, told him if he wants it to stop he must accept it

And well, he accepted and I added my device

"MFA fatigue" is real!

\*Signin with password will issue MFA through a phone call or authentication app. - However no limit is placed on the amoun of calls that can be made, call the employee 100 times at 1am while he is trying to sleep and he will more than likely accept it\*

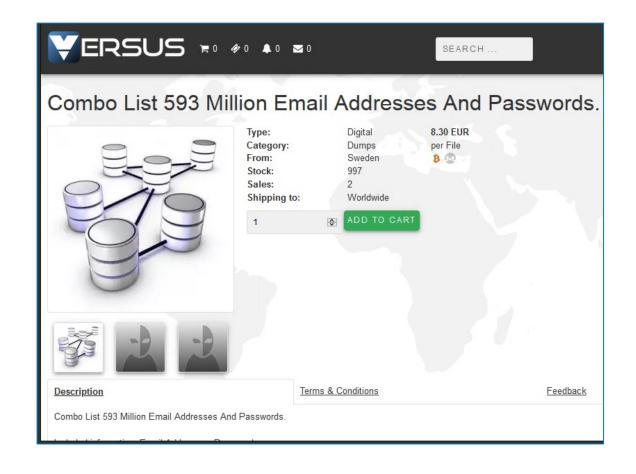






#### **Hackers Can Get Your Cell Phone #**

- Two researchers presented at Black Hat USA (Aug 2022)
- Searched the dark web for stolen passwords
- Found databases of cell phone numbers
- Linked together to get a data base with over 1 BILLION stolen passwords + phone #s

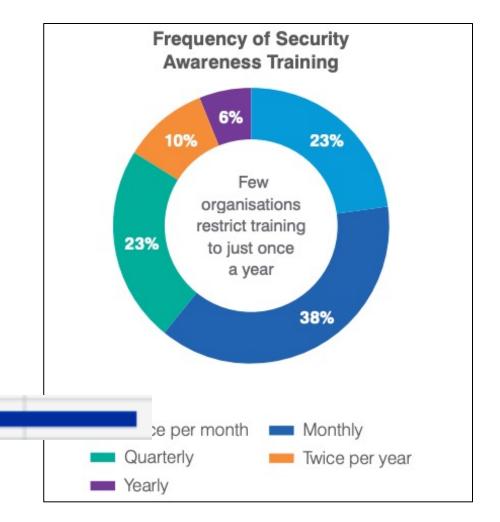






#### **Conduct Cybersecurity Awareness Training**

- On-Demand Awareness Videos
- Email Reminders
- Phishing Exercises
- Include MFA social engineering attacks
  - Texts & phone calls



Employee training

-\$247,758





#### **On-Demand Training Portal**

- Strengthen your human firewall
- Keep cyber top of mind
- Example: KnowBe4 Platform
- Over 1,350 Training Modules
- Includes phishing tests
- Highly effective!

PCBS Community Discount on KnowBe4 Training Platform through March 30! Email info@LMGsecurity.com







2022 Your Role: Internet Security and



2022 Danger Zone





Staying Safe in the Cloud

Mobile-First Module



2022 Social Engineering Red Flags

Training Module



2022 Common Threats

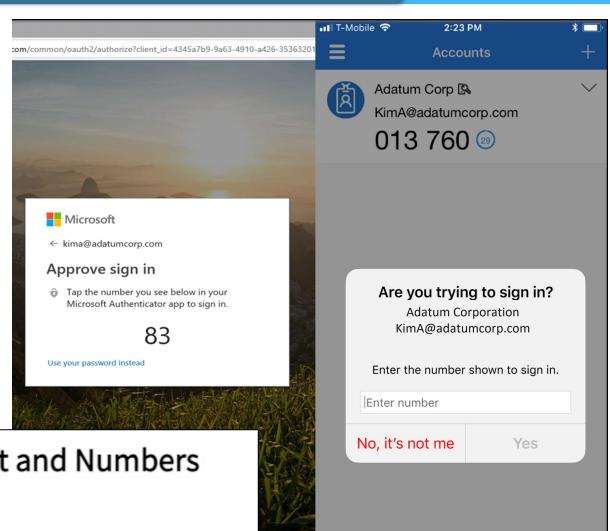
Training Module





#### **Use Strong MFA**

- Choose a strong method
  - ie Hardware token or App
  - NOT SMS/email/phone
- Configure carefully!



CISA Releases Guidance on Phishing-Resistant and Numbers Matching Multifactor Authentication

Original release date: October 31, 2022









#### Once The Hackers Were Inside Uber's Network...

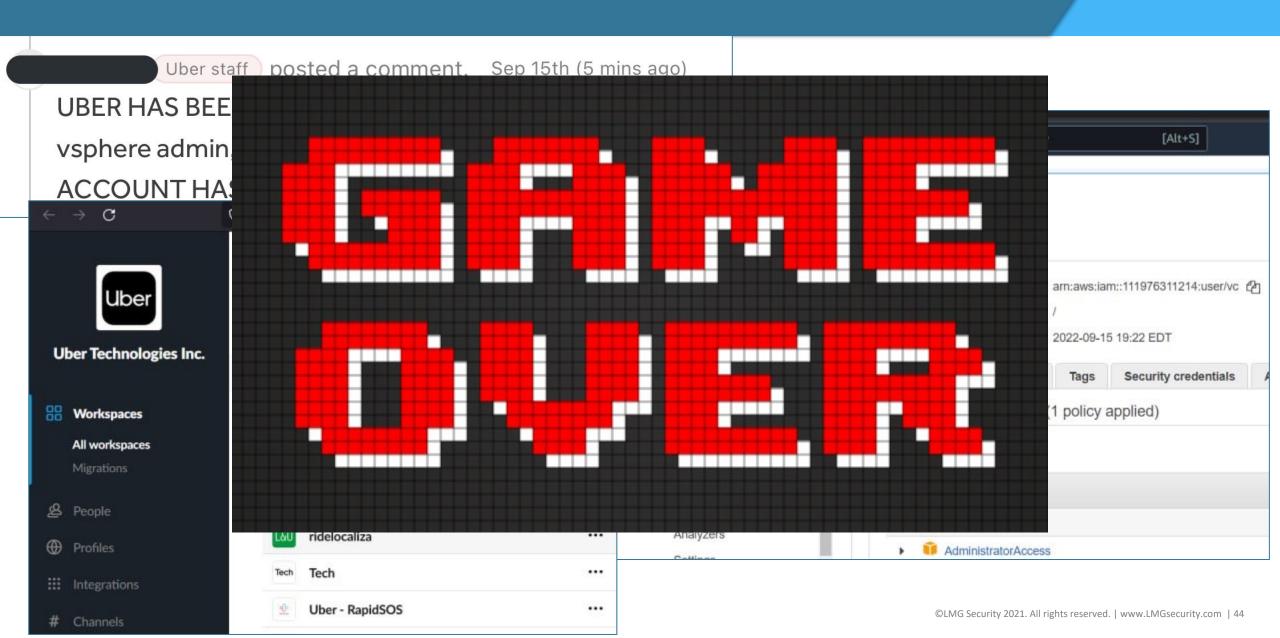
- Expanded access to other employee accounts and computers
- Gained access to core servers
- Reconfigured network to "display a graphic image to employees"



https://www.uber.com/newsroom/security-update



#### The Hackers Quickly Jumped to the Cloud





#### **Identity and Access Management**

- Restrict access to accounts
- If an account is misused/used inappropriate
- Supports automated response
- Can act as a central identity provider for other services

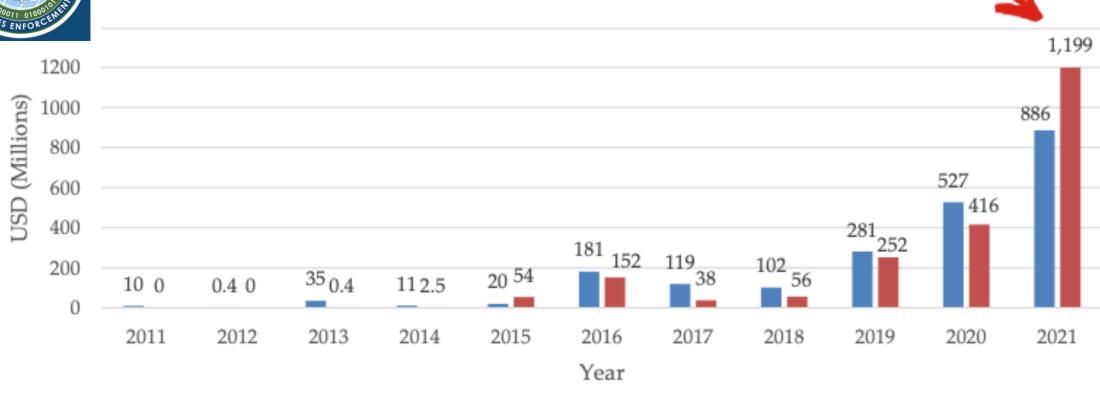




#### Ransomware Remains a Top Threat



#### Ransomware-Related Filings in 2021 Approach \$1.2 Billion





#### Case Study: BlackCat Attack!

County IT systems crippled, with websites, email down, five days after discovery of cyberattack

Riverhead Police Chief says county outage affects fingerprint checks, communications with district attorney's office

09.20.2022 FEATURED STORY

Ripple effects of ransomware attack against Suffolk County continue more than a week later

By Joe Werkmeister



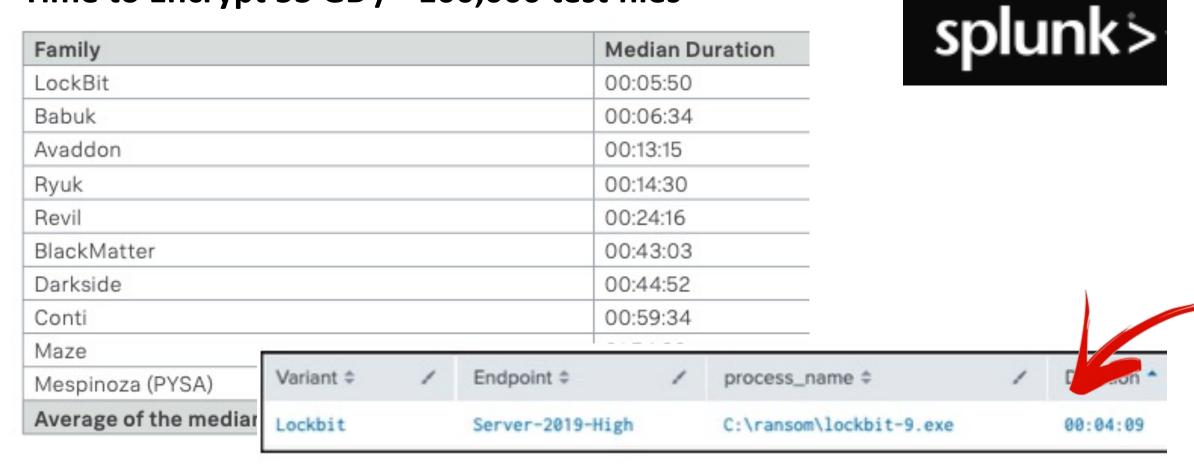
Harrison discusses the

Credit: Joe Werkmeister)



#### Better, Faster Ransomware

#### Time to Encrypt 53 GB / ~100,000 test files





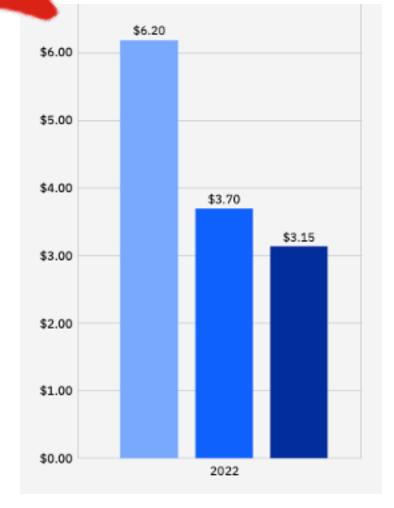


#### **Al/Automation Dramatically Improves Response**

# USD 3.05 million

Average cost savings associated with fully deployed security AI and automation

"Organizations with fully deployed security AI and automation were able to detect and contain a breach much more quickly than organizations with no security AI and automation deployed."







#### **Endpoint Detection and Response (EDR)**



- Real-time continuous monitoring
- Live response
- Threat hunting
- Historical data collection
- Highly automated





# "How is EDR Different from Antivirus?"







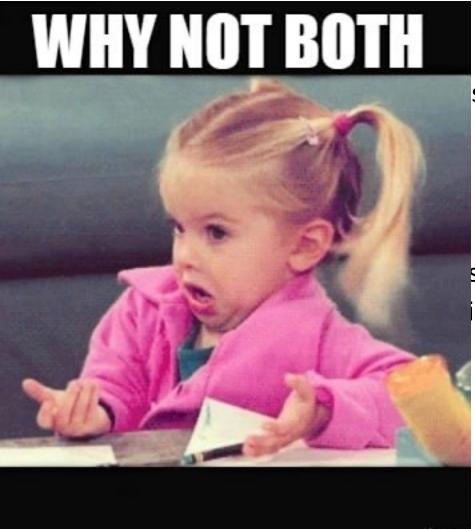
Antivirus 😊



#### **EDR vs Antivirus**

#### • EDR:

- Integrated threat int
- Behavioral detection
- Quarantine function
- Forensic information
- Live mitigation capa
- Often contains antiv



stem scanning

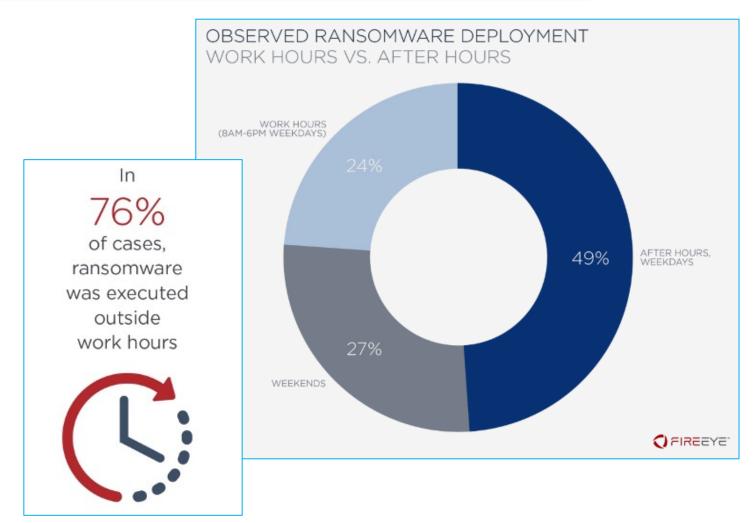
scans

le removal (sometimes only



#### **Timing of Ransomware Attacks**

- Fourth of July weekend
- Kaseya Ransomware Attacks
  - Coincidence?
  - "Forensics Friday" @LMG
- Locked up w ransomware
- Need a fast, effective response!

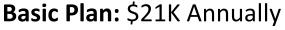






#### **Continuous Security Monitoring**





(300 Assets)



Basic Plan: \$22K Annually (300 Assets)



Essential Plan: \$17/Asset\* per Month

**Elite Plan:** \$23/Asset\* per Month

(\*300 Asset minimum) \$61k - \$83K Annually





#### **Conduct Tabletop Exercises**

- Live simulated cyber events
  - Ransomware
  - BEC
  - Malware
  - Supply chain attacks & more
- Virtual or onsite
- Test processes, communications, etc.
- Clarify roles & responsibilities
- Align expectations & Identify gaps
- Fun & educational





#### Back to the Case: Hackers Stole 4TB+ of Data

ALPHV

Blog

Collections

#### County Suffolk and contractors 9/15/2022, 5:18:29 PM

Reappeal to Mr. Steven Bellone.

Dear Mr. Steven Bellone!

We know that you have been faithfully fulfilling your duties for a long time. This is a difficult time for you to make the only right decision.

Unfortunately, you have fallen victim to the NEGLIGENCE of CYBERSECURITY PERSONNEL, who we understand have criminally misled you.

You risk losing the trust of the people of Suffolk by deliberately allowing even a fraction of the information extracted from the Suffolk County government computer network to be made public.

It is unlikely that anyone would like files, police department data etc. to be made public. You must realize that you ill kisher rijoy your inaction.

Delaying a decision in this situation can have irreversible consequences for you. It would be sad if you misjudged the situation and lost your chair.

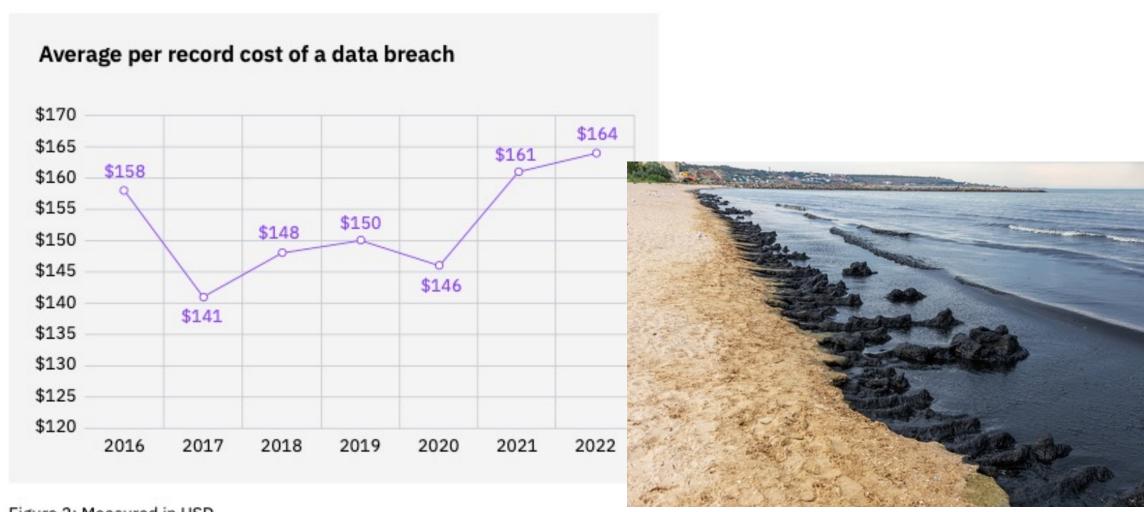
We certainly don't want that to happen. We strongly encourage you to contact us within the next 24 hours.

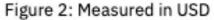
We promise that negotiations will proceed in a business friendly atmosphere. We give you the opportunity to minimize your moral and financial losses in this situation. We are assured that you will do so in the best interest of Suffolk County and its residents. WE ARE ONLY ASKING FOR A SMALL REWARD FOR OUR WORK TO FIND VULNERABILITIES ON THE SUFFOLK COUNTY OF THE NETWORK.

MPUTER INFRASTRUCTURE, IN ASE YOU MAKE THE RIGHT DECISION.

AT THE SAME TIME, WE GUARANTEE COMPLETE CONFIDENTIALITY AND DESTRUCTION OF DATA ON THIRD-PARTY MEDIA.

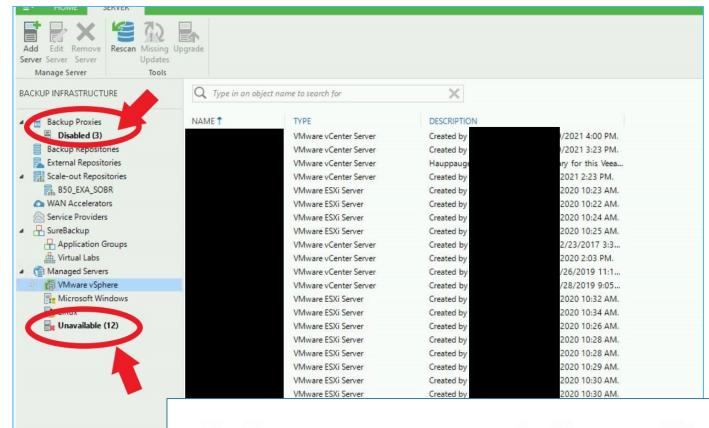
#### More Data = Higher Damages When it Leaks







# Attacking Backups...



#### **Noberus Ransomware: Darkside and BlackMatter Successor Continues to Evolve its Tactics**

New version of Exmatter, and Eamfo malware. used by attackers deploying the Rust-based ransomware.



By Bill Toulas

A HOME INVENTORY

BACKUP INFRASTRUCTURE







#### **Maintain and Test Your Backups**

- Archive, encrypt and store data offsite
- Immutable
- Encrypted
- Retention tin

- Include Cloud Apps
- Test your backups!
  - Or you don't have backups





#### Flagstar Bank hit by data breach exposing customer, employee data

By Lawrence Abrams

March 8, 2021 (7) 10:21 AM 0



SECURITY 03.08.2021 07:00 AM

#### The Accellion Breach Keeps Getting Worse and More Expensive

What started as a few vulnerabilities in firewall equipment has snowballed into a global extortion spree.

#### But Wait, It Gets Worse...

#### Ransomware Gang Fully **Doxes Bank Employees in Extortion Attempt**

Hackers posted the alleged names, social security numbers, and home addresses of several Flagstar Bank workers.



March 8, 2021, 9:41am Share Tweet Snap

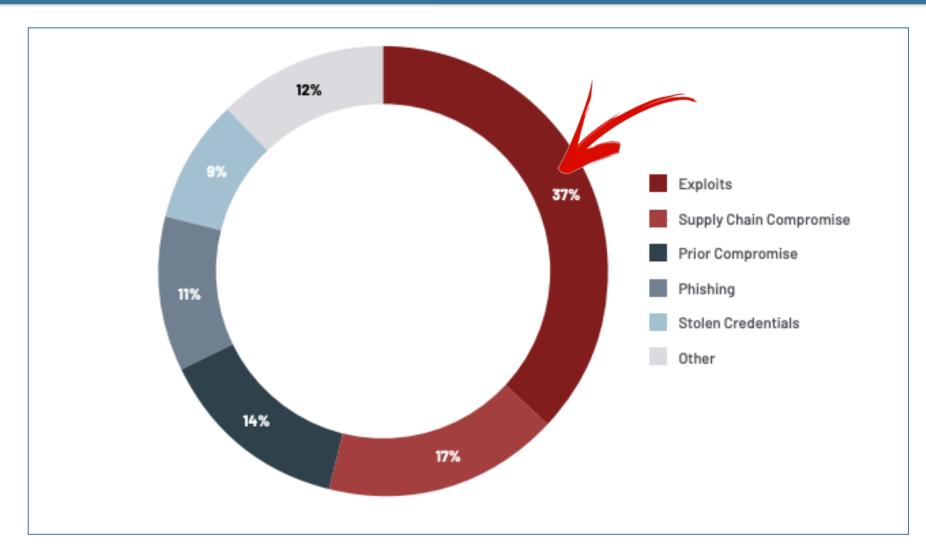


"On Monday, the hacking group known as Clop published the data from Flagstar Bank on a dark web site, and emailed reporters to advertise the extortion attempt. The hackers said that they published the data hoping to convince the bank to pay them to stop leaking its internal data." – Vice Magazine





### **Threat: Software Exploits**





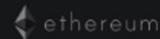




How to buy exploit? Two ways to buy required exploit. Currency, that we accept.

- 1. Anonymous buying of exploits is the way to buy exploit without registration. You buy it directly and anonymous and get exploit on mail.





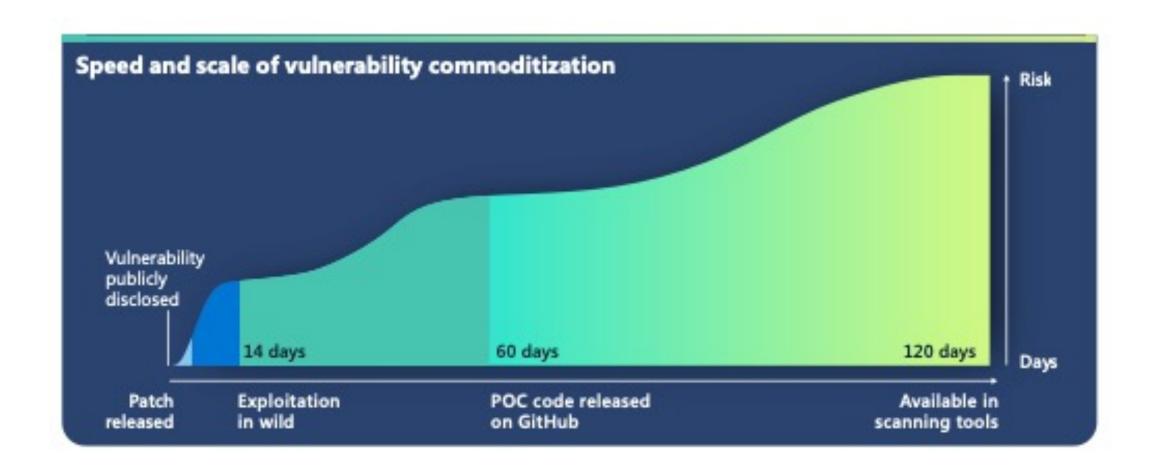
2. Another way to buy exploits is to became Oday.today user, get Oday.today Gold - and buy required exploit in our database.

We accept B Crypto Currencies: [contact admin to find more]

-::DATE	-::DESCRIPTION
22-01-2023	Solaris 10 dtprintinfo / libXm / libXpm Security Issues Vulnerability
22-01-2023	Solaris 10 dtprintinfo Local Privilege Escalation Exploit
22-01-2023	ASKEY RTF3505VW-N1 Privilege Escalation Vulnerability
19-01-2023	$Chrome\ JSN a tive Context Specialization :: Build Element Access\ Bypass\ Exploit$
18-01-2023	MP3 Convert Lord V1.0 Local Seh Exploit
18-01-2023	Citrix Workspace App For Linux 2212 Credential Leak Vulnerability
05-01-2023	Oracle Database Vault Metadata Exposure Vulnerability



#### Rapid Exploitation of Zero-Day Vulnerabilities



Microsoft Digital Defense Report: <a href="https://www.microsoft.com/en-us/security/business/microsoft-digital-defense-report-2022">https://www.microsoft.com/en-us/security/business/microsoft-digital-defense-report-2022</a>





#### **Monitor Your Attack Surface**

- Verify patching
- Audit configurations
- Scan the external facing parts of the network
- Include your cloud!

CVE- 2022- 47966	Zoho	ManageEngine	Zoho ManageEngine Multiple Products Remote Code Execution Vulnerability	2023-01-23	Multiple Zoho ManageEngine products contain an unauthenticated remote code execution vulnerability due to the usage of an outdated third-party dependency, Apache Santuario.
Notes	https://www	v.manageengine.cor	n/security/adviso	ry/CVE/cve-20	)22-47966.html
CVE- 2022- 44877	CWP	Control Web Panel	CWP Control Web Panel OS Command Injection Vulnerability	2023-01-17	CWP Control Web Panel (formerly CentOS Web Panel) contains an OS command injection vulnerability that allows remote attackers to execute commands via shell metacharacters in the login parameter.
Notes	https://cont	rol-webpanel.com/c	hangelog#166985	55527714-4501	fb335-6194
					Microsoft Exchange Server
CVE- 2022- 41080	Microsoft	Exchang Server	CISA INTERIOR	& INF	RSECURITY RASTRUCTURE RITY AGENCY
Notes	https://msr	c microsoft co	CURITY AGENC		

https://msrc.microsoft.co

Notes

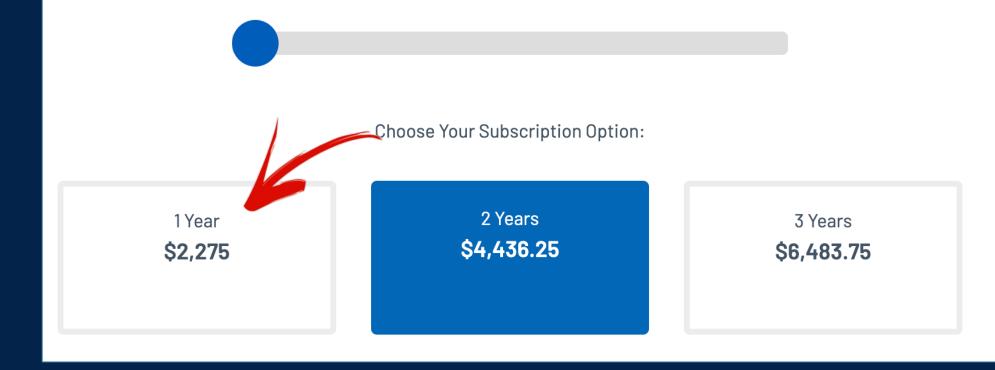
https://www.cisa.gov/known-exploitedvulnerabilities-catalog



Gain Visibility Into Your External Attack Surface

65 assets +





# 23 NY Charges First American Financial for Massive Data Leak

In May 2019, KrebsOnSecurity broke the news that the website of mortgage title insurance giant First American Financial Corp. had exposed approximately 885 million records

related to mortgage deals going back to 2003. On Wannounced that First American was the target of their taction in connection with the incident, charges that could



Zack Whittaker @zackwhittaker / 3:14 PM MDT • May 24, 2019

# First American Financial's SEC Breach Settlement: \$488,000

SEC: Executives Left in Dark About Vulnerability in File-Sharing System

Jeremy Kirk (♥jeremy\_kirk) • June 21, 2021 ●





#### **Conduct Penetration Testing**

- Ethical hackers find your weaknesses before the bad guys
- Get an accurate understanding of your risk
- Identify fundamental issues that automated scans won't detect
- Get to the root of cybersecurity weaknesses
- Demonstrate the risk
- Prioritize cybersecurity investments effectively





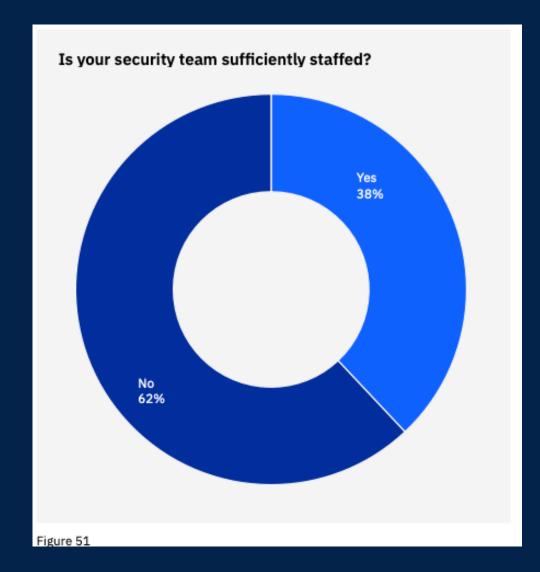


#### **Effective Patch Management**

- Takes time & manpower
- Operating system & 3<sup>rd</sup> party apps
- Requires application inventory & tracking







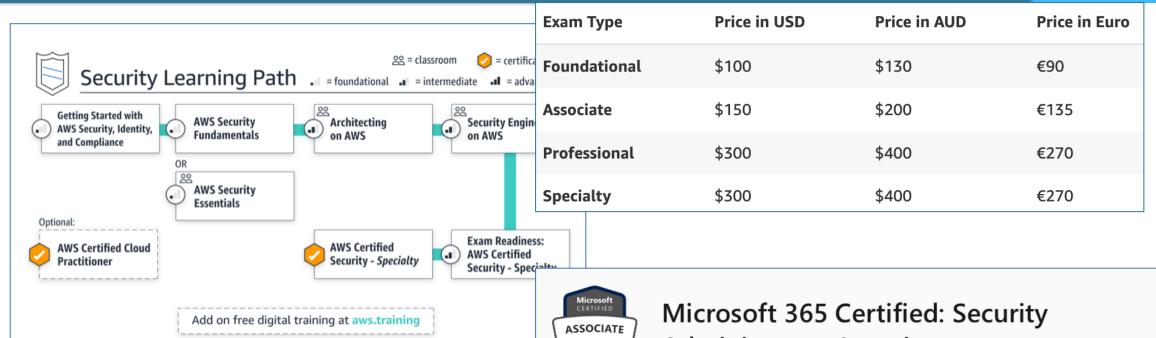
# Continued Security Staff Shortages Are Making Businesses More Vulnerable To Cyberattacks: Report

Edward Segal Senior Contributor © I cover crisis-related news, issues and topics.

Follow

Apr 6, 2022, 08:01am EDT

#### **Practical, Low-Cost Security Training**



Training content may be free!

# **Administrator Associate**

In response to the coronavirus (COVID-19) situation, Microsoft is implementing several temporary changes to our training and certification program. Learn more

Microsoft 365 Security Administrators proactively secure Mi environments, implement and manage security and complia data governance.

Job role: Administrator Required exams: MS-500 Important: See details

Go to Certification Dashboard 2

\$99 USD\*

Price based on the country or region in which the exam is proctored.





# 1-DAY ONLINE CLASS



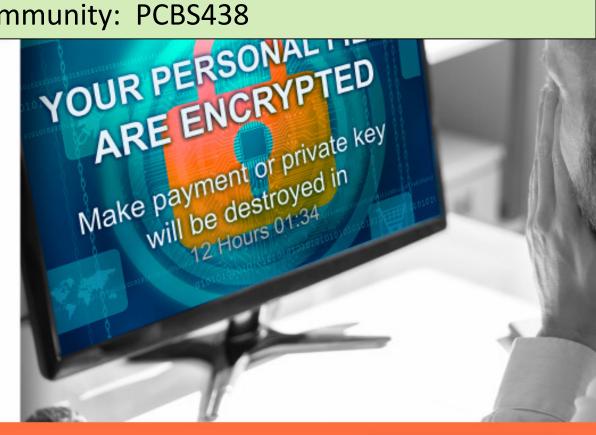
THURSDAY **MARCH 9, 2023**  Register now for the Ransomware Response class!

https://www.LMGsecurity.com/ransomwareclass

\$50 Discount code for PCBS community: PCBS438

# RANSOMWARE RESPONSE

See modern ransomware in action and learn how to minimize losses by quickly identifying, triaging, and responding to ransomware.







Taught by industry experts Sherri Davidoff & Matt Durrin



## **New Compliance/Contractual Requirements**

#### **Example: GLBA**

#### § 314.4 Elements.

In order to develge ment, and maintain your information security program, you shall:

- (a) Designate a qualified individual responsible for overseeing and implementing your information security program and enforcing your information security program (for purposes of this part, "Qualified Individual"). The Qualified Individual may be employed by you, an affiliate, or a service provider. To the extent the requirement in this paragraph (a) is met using a service provider or an affiliate, you shall:
  - Retain responsibility for compliance with this part;
  - (2) Designate a senior member of your personnel responsible for direction and oversight of the Qualified Individual; and
  - (3) Require the service provider or affiliate to maintain an information security program that protects you in accordance with the requirements of this part.



## Cybersecurity Starts with Strong Leadership!



"How a security program is planned, executed, and governed is likely as important as how much money is devoted to cybersecurity."





#### **Qualified Cybersecurity Leadership**

- Every Organization Needs a Qualified CISO or equivalent
- Skills required
  - <u>Cybersecurity experience</u> (not just certificates)
  - Familiarity with Controls Frameworks, Risk Assessments, and Technical Testing
  - Strong IT background as well
- Reduces average cost of a breach by \$144,915
- Does not need to be full time
  - You can become a fractional CISO!



**Chief Information Security Officer** 





#### **Outsource Cybersecurity As Needed**

- MSSPs
- Cybersecurity projects
- Specialized skills

# Spending shift to managed security services providers

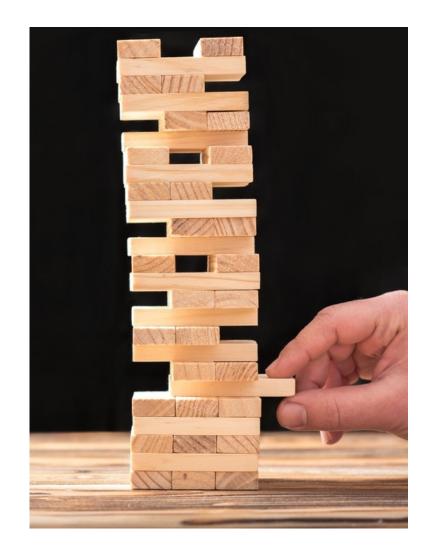
"There's a broad and deep ecosystem of service providers that can support any range of cybersecurity capabilities, much more so than there were five years ago," says Maxim. "Organizations need to understand a service provider's capabilities, and to what extent they have serviced companies in their industry or of their size."





## **Risk Treatment Options**

- Avoid
- Accept
- MitigateTransfer





### **Cyber Insurance is More Important than Ever**

- Reduces average cost of a breach by \$240,488
- Covers response costs:
  - Incident response specialists
  - Legal services
  - Forensic investigation
  - Threat hunting
  - Public relations
  - Notification costs
  - Etc.
- Business disruption/lost revenue
- Information security/privacy liability
- Regulatory fines (state/federal laws, etc.)





## It's Not Apples to Apples







Cyber policies lack common definitions. Industry stakeholders noted that differing definitions for policy terms, such as "cyberterrorism," can lead to a lack of clarity on what is covered. They suggested that federal and state governments and the insurance industry could work collaboratively to advance common definitions.

United States Government Accountability Office

"This ambiguity can result in misunderstandings and litigation between insurers and policyholders." – GAO



#### **Shifting Cyber Insurance Landscape**

- Acts of War new requirements from Lloyd's
- Systemic Risks
  - New! Outage of major service providers (Microsoft, Amazon, etc.)
  - Widespread events (ie if a hack affects more than a certain # of organizations, you won't be covered)

Ensure the cyber insurance coverage is aligned with risks and leadership's risk appetite



#### Lloyd's Cyber Insurance Tweaks Stir Coverage Restriction Concern

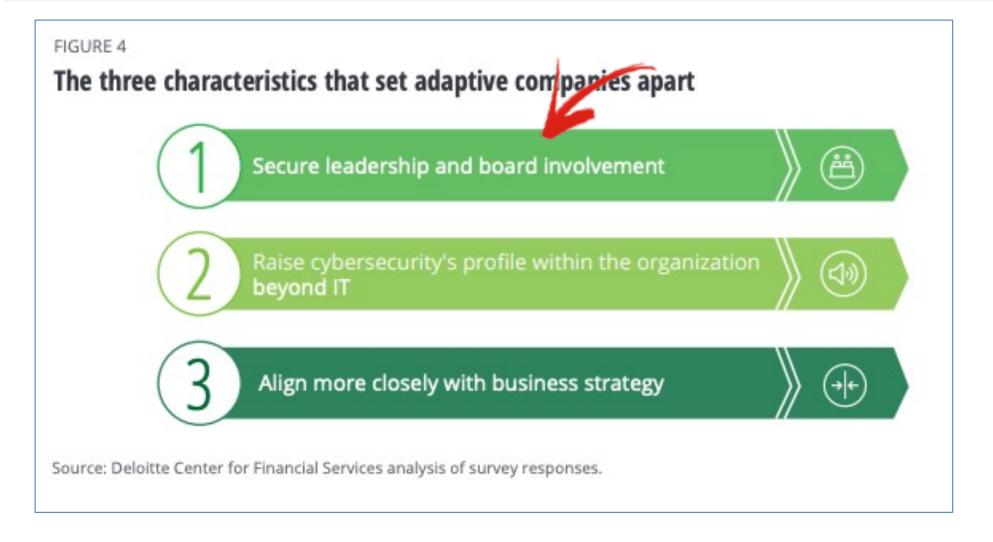
BY DAPHNE ZHANG

**DEEP DIVE** 

Aug. 26, 2022, 3:00 AM



### **Effective Cybersecurity Starts at the Top**





## **Increasing Risks for Management & Board**

Former Uber Security Chief Charged With Concealing Hack

Former Chief Security Officer Of Uber Convicted Of Federal Charges For Covering Up Data Breach Involving Millions Of Uber User Records

Wednesday, October 5, 2022

For Immediate Release





The law is moving towards potential liability, so don't have your company (or client) delay implementing something soon concerning data security.



NER WARNS

**EOS WILL BE** 

Sep 2, 2020



### **Board & Executive Awareness is Key**

- Good job today!
- Empower your executives & board
- Education & training on cybersecurity
- Annual update / budget review
- Metrics & reports
- Cybersecurity risks = business risks





## How to Run an Effective Cybersecurity Program

# 1) Know What You are Trying to Protect

✓ Inventory of Data & Assets

#### 2) Understand Your Obligations

- ✓ Statement of Applicable Laws, Regulations, and Obligations
- ✓ Oversight Responsibilities

#### 3) Monitor Risk

- ✓ Risk Assessment Report
- ✓ Cybersecurity Controls Assessment
- √ Technical Testing
- ✓ Incident Review

#### 4) Manage Risk

√ Top Security Controls of 2023







#### THE TOP SECURITY CONTROLS

- Advanced Multifactor
   Authentication (MFA)
- 2 Extended Detection and Response (XDR)
- 3 On-Demand Cybersecurity Awareness Training
- 4 Identity and Access Management (IAM)

- 5 Effective Patch Management
- 6 Attack Surface Monitoring
- 7 Cloud Configuration Management
- 8 Continuous Security Monitoring

- Incident Response Testing and Training
- Next-Generation Backups
- 11 Data Discovery & Mapping
- 12 Qualified Security Leadership

www.LMGsecurity.com

#### **Questions?**

- Sherri Davidoff, CEO of LMG Security
- info@LMGsecurity.com
- @LMGSecurity
- sherridavidoff@infosec.exchange
  Find me on **Linked** in



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