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Being Part of Something that Counts

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**Cyber Security:** Protecting your data and your privacy

SEAC

June 24, 2022, 8:30am

Kevin C. Glasgow, FLMI, FLHCoeLU<sup>®</sup>, CFE

Diligence International Group, LLC 1-800-660-4202 www.DIGroup-US.com



 $\mathcal{D}$ 

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- Define OSCINT
- Learn how to protect your data: Password habits Security question VPNs WIFI Signals
- Identify Social Engineering schemes Website insights
- Understanding what a DDOS attack does



## Data Is The New Currency



#### COMMVAULT 📦

Data is the new digital currency, criminals are knocking, and your DR plan is outdated

Dez Blanchfield | Dave Orban





# Data Is The New Currency

# Unfortunately, data isn't always used for good purposes.

June 13, 2022

#### $\mathsf{DIFIZ} \in \mathsf{UC} \in$

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#### Kaiser Permanente Discloses Data Breach at WA Health Plan, 69K Impacted

Kaiser Foundation Health Plan of Washington, Virginia Mason Medical Center, and MCG Health recently reported data breaches impacting protected health information (PHI).



Source: Getty Images

By Jill McKeon



June 13, 2022 - Kaiser Permanente notified 69,589 individuals of a data breach that occurred at



## OSINT: Open-Source Intelligence

Simply put:

All information available through public source whether electronic, physical, or from other people.

Examples:

Google Facebook Prop Tax Records Court Records Newspapers TV Twitter Library LinkedIn DuckDuckGo Radio Commercial databases



## **OSINT:** Open-Source Intelligence

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Bing	AnyWho	Blogspot
Dogpile	Black Book Online (public	Chatty Head
DuckDuckGo	BeenVerified	Classmates
Google	Canada 411	Facebook
Gigablast	InfoBel	Flickr
Mozbot	Intelius	hi5
Oscobo (UK-based)	MelissaData	Instagram
Qwant	PeekYou	LinkedIn
Sputtr	Phonebook of the World	Match
StartPage	Pipl	Meetup
Yahoo	Public Records	MyLife
Yandex	Snitch.name	MySpace
	Spokeo	OurTime
	ThisNumber	Pinterest
	UserSearch	ReverbNatio
	Webmii	Sportstats
	ZabaSearch	Tagged
	ZoomInfo	Trendsmap
		Twitter
		WordPress
		YouNow

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Images **Bing Image Search** Flickr Instagram Photobucket SmugMug TinEye Webshots Yandex Image Search YouTube What is TinEye?

Online Communities Angelfire Boardreader Deviantart Domain Tools Google Groups IMDB Nexopia Omgili Quora Reddit Tumblr Typepad Who.is WordPress Xanga Yahoo Groups

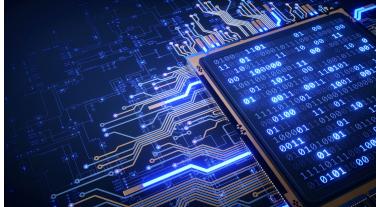
Classified Listings Amazon Clickooz Craigslist eBay Hotfrog Kijiji Manta PicClick SaleSpider Used VendAnything

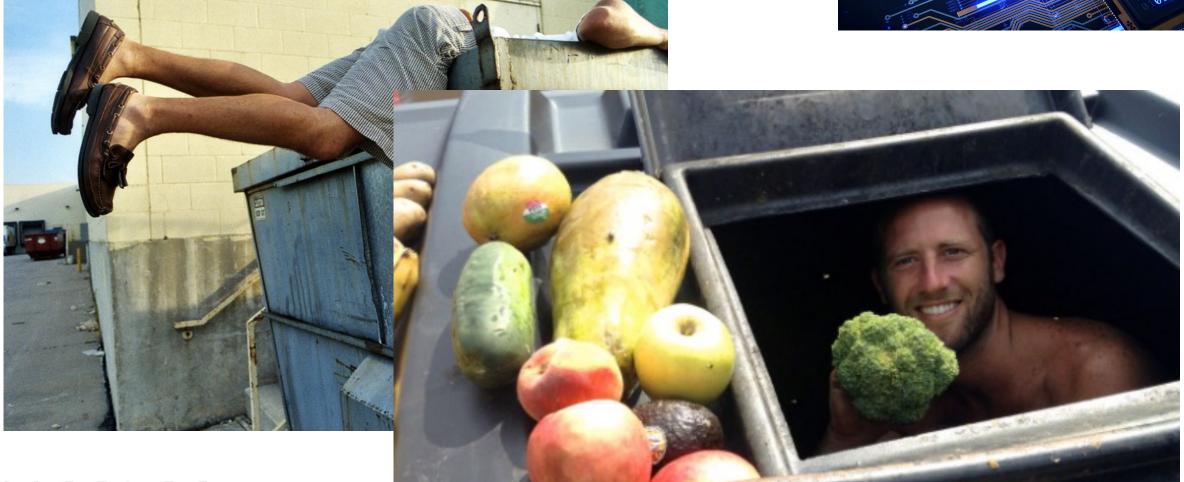
Business Checks Angie's List American Listed Better Business Bureau BizNar Bloomberg Businessweek CLEAR Corporate Information Dun & Bradstreet Foursquare Guidestar Industry Canada InsiderPages Leadership Connect Open Corporates Orbis Directory PIBuzz SEC Company Search Yelp

Misc Airbnb Athlinks CourtReference dnsLytics DomainTools EarthCam Fold3 (military records) Terrorism Databases National Sex Offender Registry PageGlimpse Public Records Snopes State Sex Offender Registry U.S. Federal Inmate Lookup Wayback Machine Webboar Whoisology

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## **OSINT: Open-Source Intelligence**









#### Did They REALLY Post That? Yes, They Did







#### Perfect way to end a hard day



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#### Oklahoma mom tried to sell two kids on Facebook for \$4,000 so she could pay boyfriend's bail

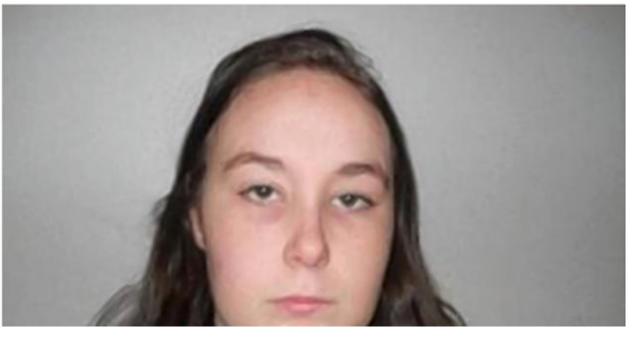
Misty VanHorn, 22, is accused of offering up for sale online her two babies, one who is 2 years old and the other who is 10 months old.

#### Comments (47)

BY LEE MORAN / NEW YORK DAILY NEWS

TUESDAY, MARCH 12, 2013, 8:36 AM







# Web Tidbits – Where is it?



#### WWW

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Websites are indexed through web service providers so they can be searched and accessed by public.

#### Deep Web

Websites are NOT indexed through web service providers but may be legit. Example may be web pages that companies use for internal purposes. Sites can still be accessed if the site address is known.

#### Dark Web

Websites are NOT indexed and intentionally hidden. May require TOR browser to view.

- Safe communications
- Adds additional layer of security
- Associated with illegal activity because of security, but used legitimately as well
- Over 20 billion data points for sale on Dark Web – think ID theft.

### How to Protect Your Data



- 1. Shred documents with PII including Utility Bills
- 2. Password Habits
- 3. Security Questions
- 4. VPNs (Maybe)
- 5. Diligence with emails (Phishing and other scams)
- 6. Know your website





85% of breaches are due to human element, like phishing or weak and reused passwords...

65% of people use the same password on multiple accounts<sup>1</sup>

User ID:	JohnSmith@AOL.com	
Password:	1942April07	



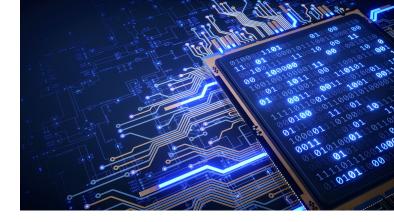
<sup>1</sup>https://www.lastpass.com/resources/learning/how-secure-is-my-password

Conventional Wisdom is Changing...

Conventional Thinking...

Change passwords often

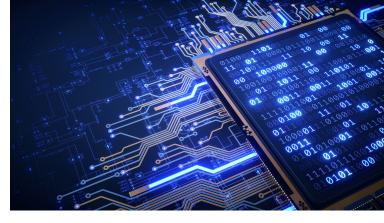




Revised Thinking...

Create a STRONG, UNIQUE password for each account, and leave it alone





Password Do's	Password Don'ts
Each account should have its own password	Use same password for all accounts / Reuse passwords
- Use lower, upper, numbers, and special characters	Use known dates / names such as birthdates
- Use long phrases or random words	Write them down in a place where people can see them
- Unique, Private, Random, No Patterns	Use PII
Change passwords regularly – or not (changing views)	Don't share passwords (Netflix)
Use MFA with passwords	Use security questions that have available answers
Password Vault	



Sample Passwords



1234 MyStreet



Kim1925



Snickers2002



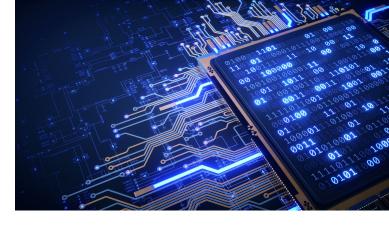
derrick-forsake-fadeout-AXIOLOG-sums-clam-quackery

String of random words

✓ y3V7Ja\*VyzNpggkNtwW@ctfKtWg\_JovXUbiyoPK

String of random characters





### Password - Vaults

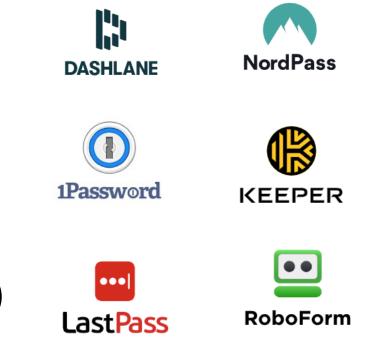
**Offer Convenience and Security** 

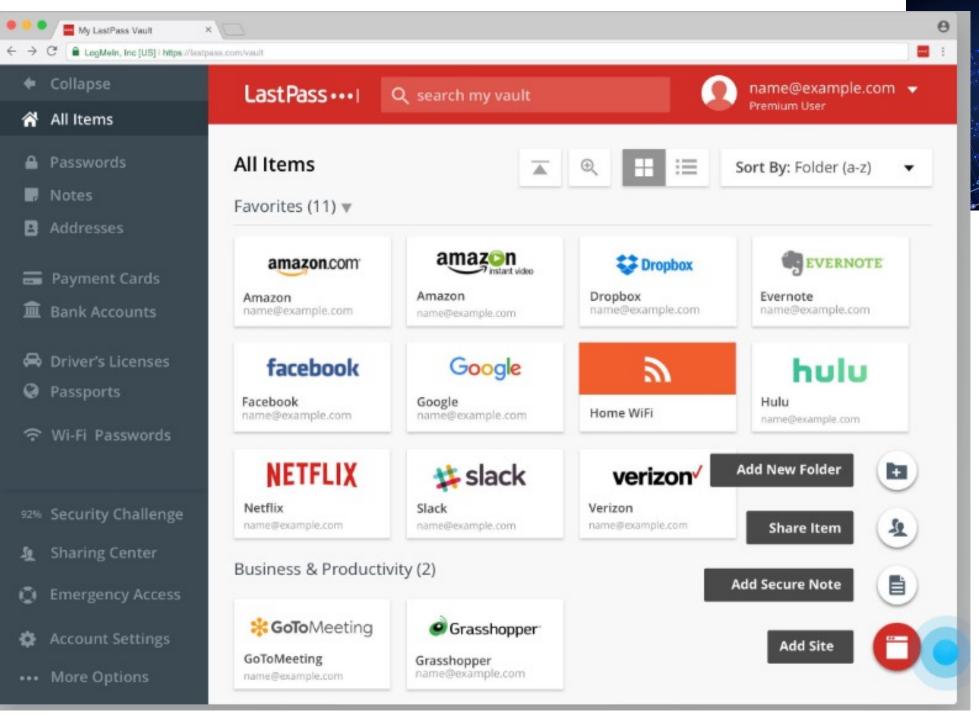
- Stores Passwords in one place
- Can ensure you are on the right website
- Generates long passwords that are random
- May be local or on their server
- Some share across devices
- Some have private and shared folders
- Features and cost will vary

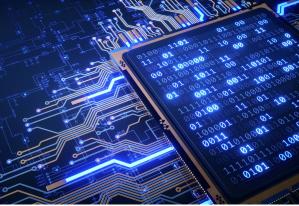
DILIGENCE INTERNATIONAL GROUP, LLC

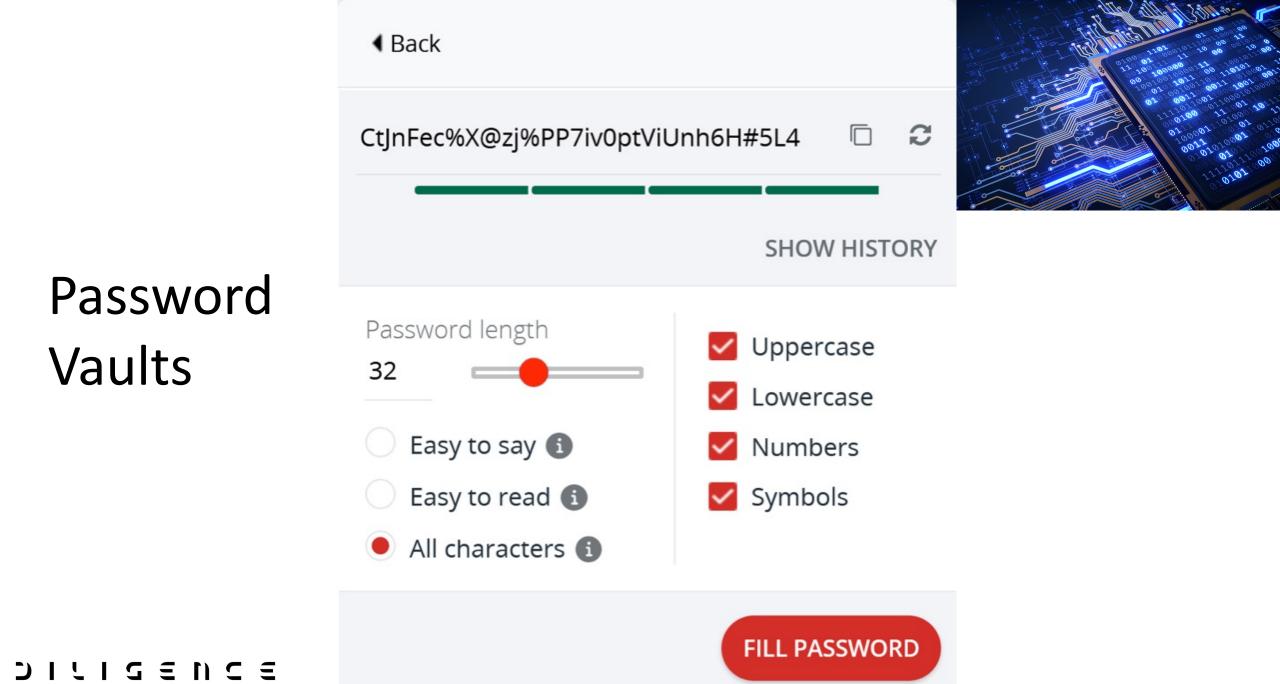
• iCloud Keychain (iOS and Windows, synchs across)





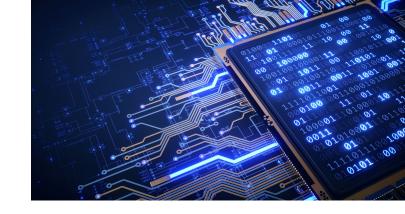


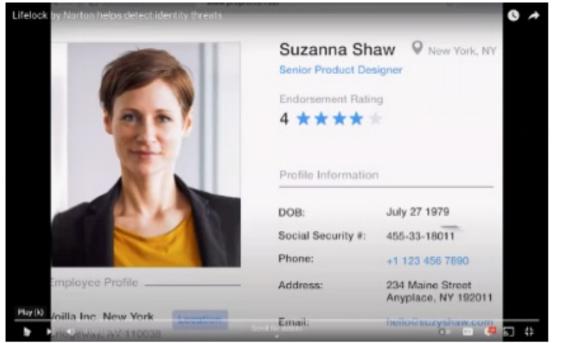




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## **Password Security Questions**







Lifelock by Norton helps detect identity threats.



Location

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Employee Profile

/oilla Inc. New York

2rio2e%20/,915 110038

Play (k)

200

DILIGEI

#### Suzanna Shaw **V** New York, NY

www.proprome.com

Senior Product Designer

**Endorsement Rating** 

 $4 \star \star \star \star \star$ 

#### **Profile Information**

DOB:	July 27 1979
Social Security #:	455-33-18011
Phone:	+1 123 456 7890
Address:	234 Maine Street Anyplace, NY 192011
Email: Scroll for details	hello@suzyshaw.com

hello@suzyshaw.com HD CC 



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# Password Security Questions

Here's an idea...

Use your password vault to generate a random password for your security question

Security Question What's your mother's maiden name? ^79J7h6Hg\$gJi(k



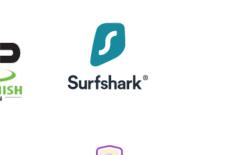
# Virtual Private Networks (VPNs)

Purpose: Allow secure communications from one computer to another over the internet

- Used by many companies to secure remote connections
- Available for personal use
- The user connects to a secured server
- Connection is encrypted

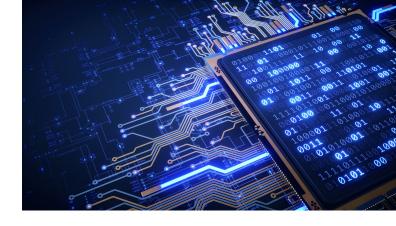
DILIGENCE INTERNATIONAL GROUP, LLC

• All traffic to and from is "hidden" from hackers





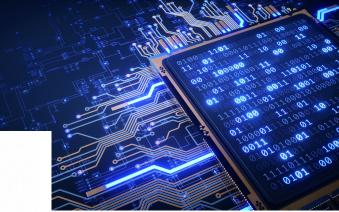
Private**VPN** 





norton

VPNs



#### How a VPN works

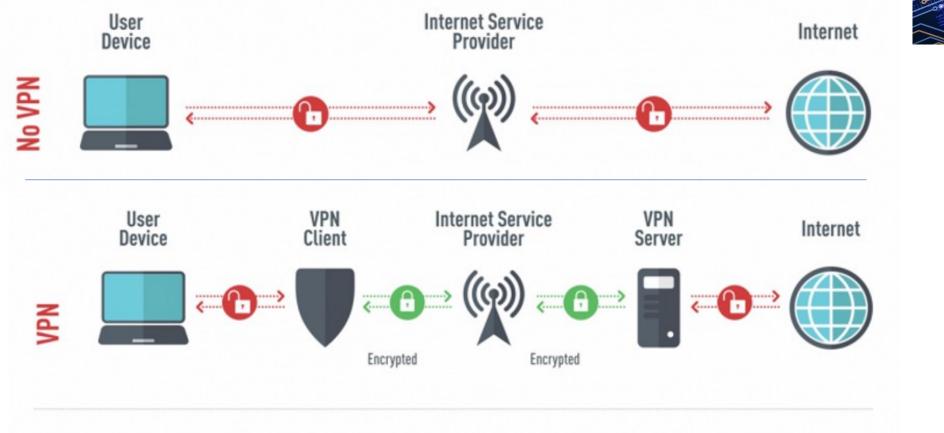


Image source: <u>https://www.yellowstonecomputing.net/uploads/2/2/1/6/22165724/how-a-vpn-works-intographic-730x484\_orig.png</u>



Advantages:

- All communications are encrypted and hidden from hackers
- Keeps online activity private
- You can make your connection appear to be from anywhere
  - Great for the consumer, but...
  - Fraudsters can mask their true location

Be aware: Some VPN services keep logs



**VPNs** 

# Virtual Private Networks (VPNs)

Opinion is Mixed: There isn't a consensus on usefulness depending on security of the website itself.







# WARNING



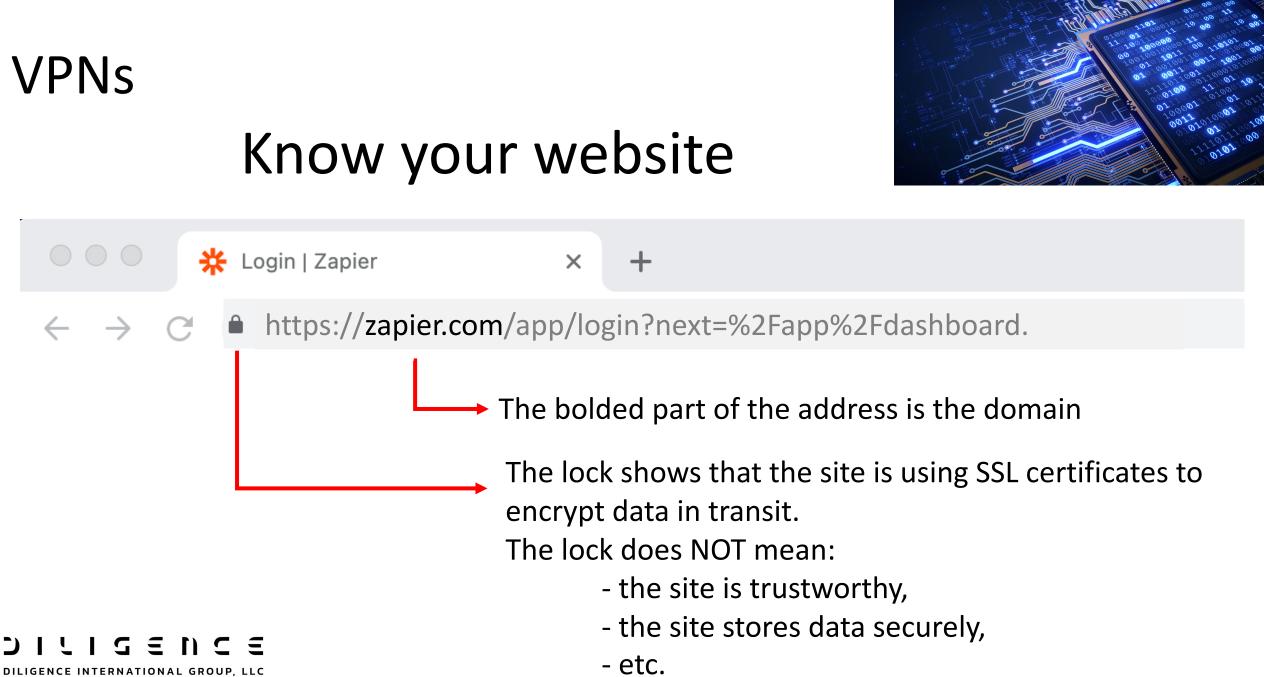
People in other countries may appear to be in the U.S.

The IP address being collected on your insurance application may be masked or from a VPN.

What are the implications of this for your company?

Diligence has solutions for this...





# Beware of Typos and False Sites

https://blog.goggle.com

i http://googgle.com



GOGGLE: /ˈgägəl/ – verb 1. look with wide open eyes, typically in amazement.

Goggle was the closest Electoral College predictor among established pollsters Error in Democratic and Republican vote predictions

 $\leftarrow \text{Democratic vote error} \rightarrow$ 

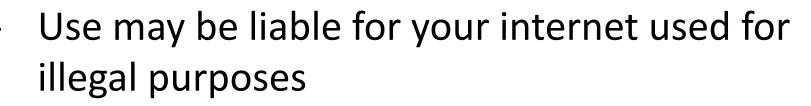


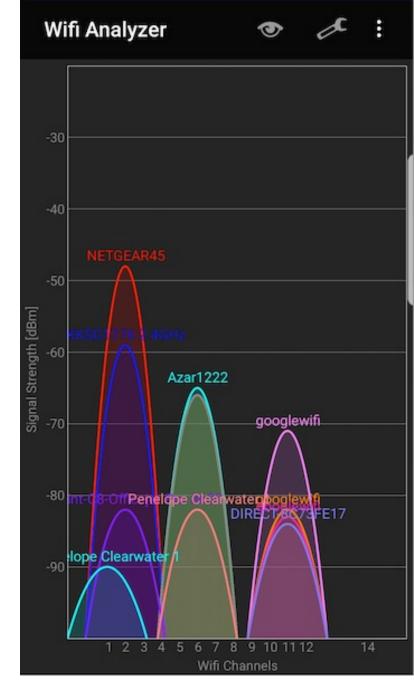
### WiFi Signals

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Be mindful of your WIFI signal name...

- Make sure you WIFI is password protected
- Use an obscure name we have used this to locate "dead" people on the lam.
- Use may be liable for your internet used for illegal purposes



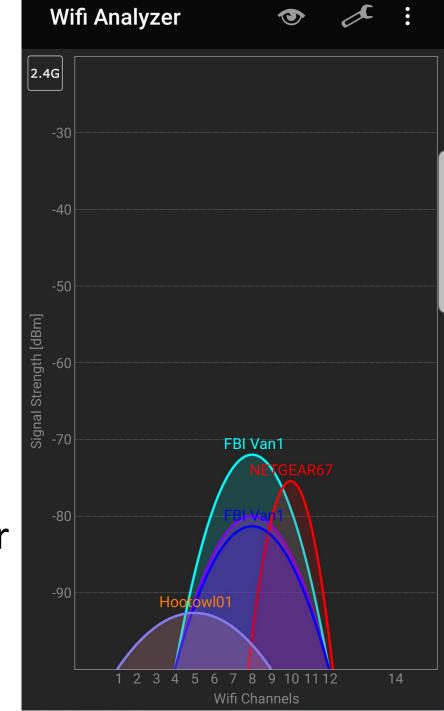


## WiFi Signals

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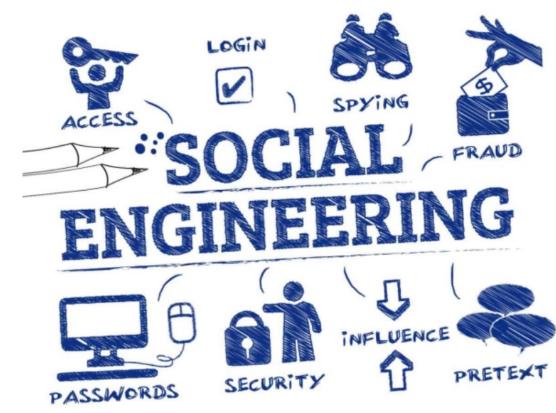


# Social Engineering

"a method of gaining unauthorized access to a computer system in which the attacker deceives victims into disclosing information or convincing them to commit acts that facilitate the attacker's intended scheme." (2018 Fraud Examiners Manual, p 1.1406)







# Social Engineering

- Phishing
- Spear Phishing
- Whaling
- Rock Phishing
- Pharming
- Vishing

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- BEC

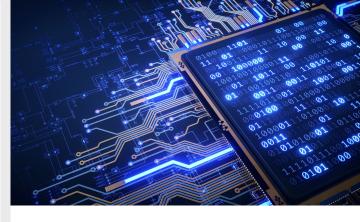


our document has been completed

#### REVIEW DOCUMENT

All parties have completed - Accounting Invoice Document Ready for Signature.

Please review and sign your Accounting Invoice via DocuSign by clicking on the "Review Document" button above. Signing will not be complete until you have reviewed the agreement and confirmed your signature. Please make sure to fill out the TaxID if you are requesting for credit terms. Please let us know if you have any questions. Thank you.



#### Attachments

From: Joe Smith To: Troy Foster Subject: WebMail Migration When an attachment comes from someone you don't know or if you weren't expecting the file, make sure it's legitmate before opening it.



Attachment -- Webmail\_Migration.pdf

#### Troy,

This is to inform you that we are in the processing of migrate our email infrastructure to the Windows 2003 platform, which includes an e Log-in Pages e-mail. Spear phishers will often forge login p

Attached is a document outlining the benefits of th

#### Spear phishers will often forge login pages to look exactly like the real thing in order to

steal your credentials.

migration we request you to enter your Windows password before 8 PM on Tuesday. Failure to do so will result in being locked out of your email account!

#### Please click here to update your password.

Thank You, John Smith

#### Links

Roll your mouse pointer over the link and see if what pops up matches what's in the email. If they don't match, don't click.

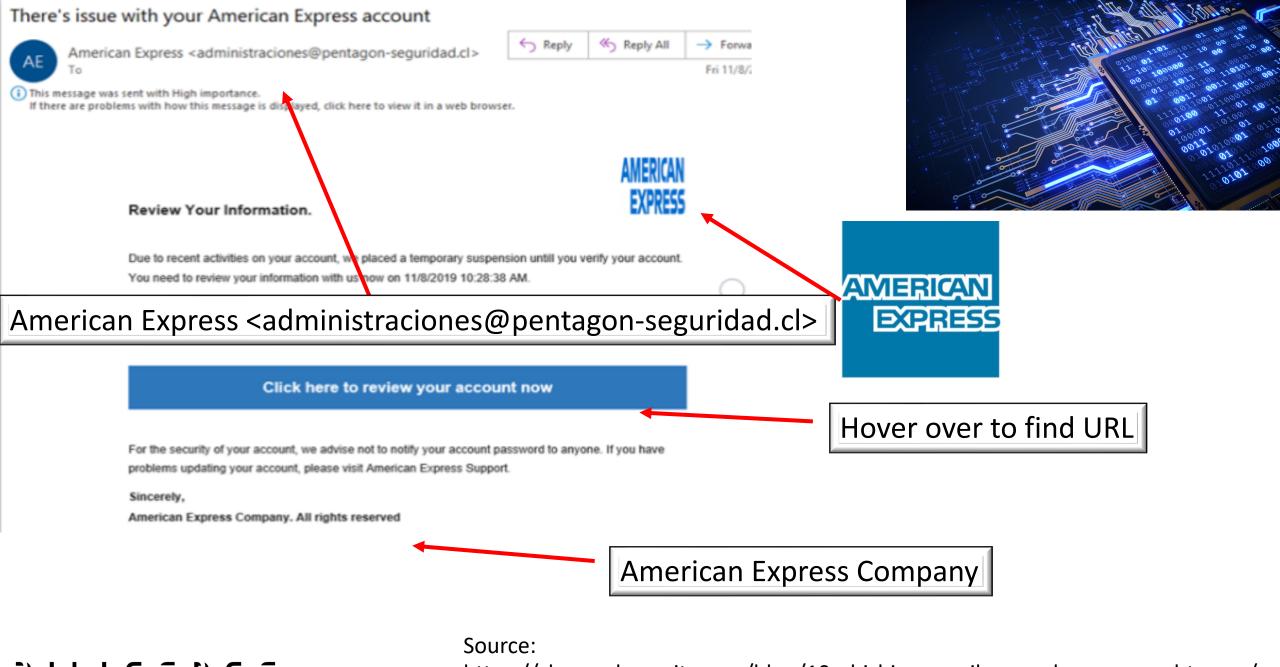
#### If you see something, say something!

Report suspected phishing emails to the information security team

# PhishMe

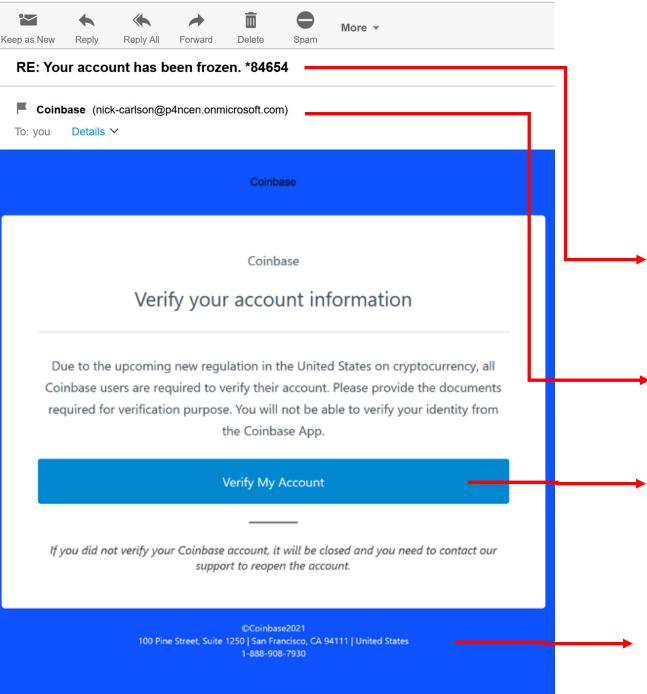
Copyright © 2016, PhishMe, Inc. All rights reserved.

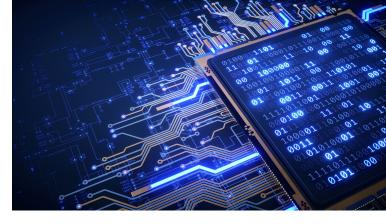
The PhishMe name and logo are trademarks of PhishMe, Inc. in the United States and other countries.



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https://cheapsslsecurity.com/blog/10-phishing-email-examples-you-need-to-see/





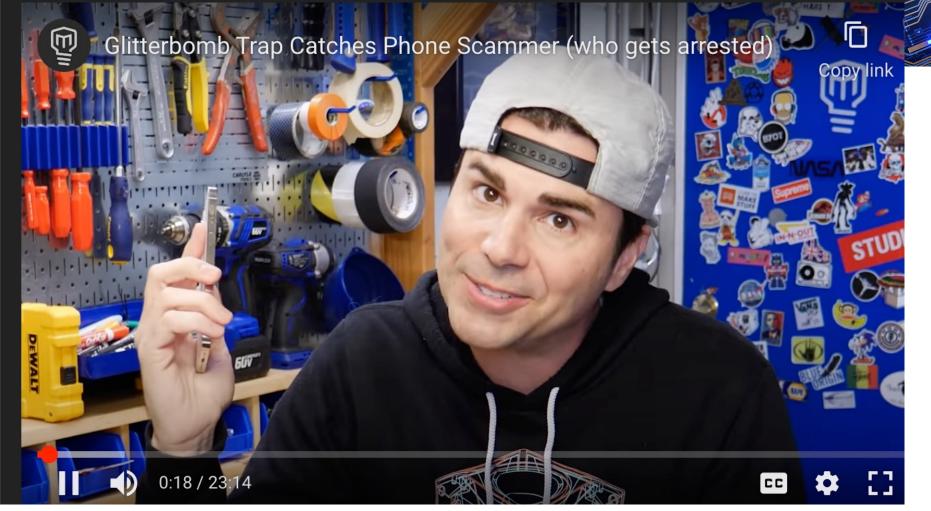
#### Wrong account number

Nick-Carlson@p4cen.onmicrosoft.com

https://grco.de/bcvKYo

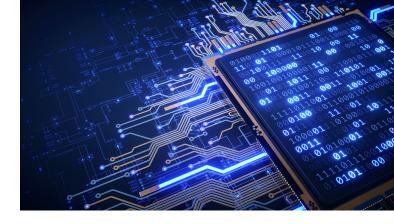
Looks like a legit address

# Glitter Bomb – Mark Rober



### **DOS Attacks**

Distributive Denial of Service attacks that make a machine or network unavailable by either crashing the services flooding the target with requests in an attempt to overload the system.



Mitigants:

- Software
- Increased bandwidth
- Good "cyber hygiene" eg. passwords, authentication practices, etc.
- Know your network traffic
- Move to the cloud



### **DDOS** Attacks

Distributive Denial of Service (DDOS) attacks that make a machine or network unavailable by either crashing the services flooding the target with requests in an attempt to overload the system.



Case Study:

While not a true DOS / DDOS attack , we recently had a client report that their on-line application system was overwhelmed by bots submitting applications. Their IT area was able to detect it after about 1,000 applications were loaded. Know your Cyber Traffic, change passwords, watch for phishing, keep strong authentication practices (SSO, MFA, etc.)



Ohio Home Office of Life and Health Underwriters Association | April 7, 2022

#### THANK YOU – Let's Continue the Conversation !



Richard Marquez, CFE Founder and President Richard.Marquez@DIGroup-US.com 800-660-4202



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