SECURITY AWARENESS: A BLUEPRINT FROM START TO FINISH-ISH



SÜDDEUTSCHE ZEITUNG

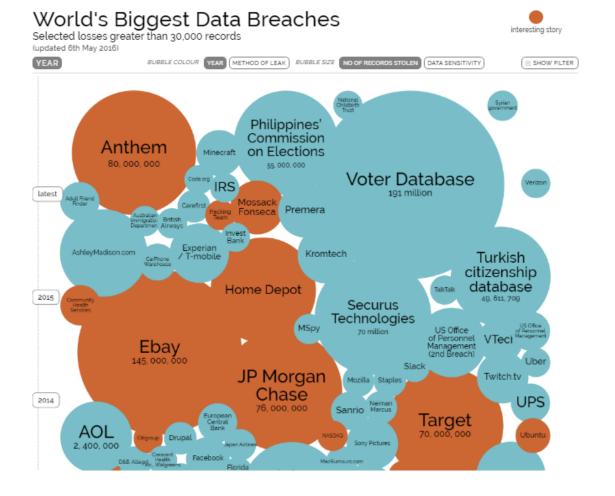
How much data are we talking about?

JOHN DOE

More data than anything you have ever seen.



PANAMA PAPERS

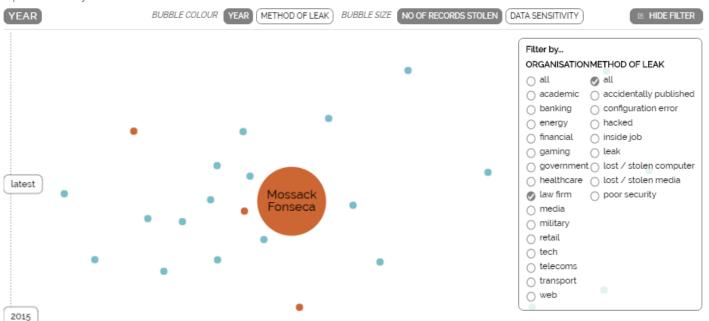




World's Biggest Data Breaches



Selected losses greater than 30,000 records (updated 6th May 2016)





The size of the Panama Papers leak

Amount of data compared to previous leaks



Panama Papers (2016) 2,600GB

Source: International Consortium of Investigative Journalists (ICIJ)



STRATEGY 1: DESIGN FOR THE LONG HAUL

This isn't a rollout project. You don't get to "done."



Design for the long haul

- Compliance or change?
- How often is often "enough"?
- Feed the beast
- Balance the load
- Get creative...for their sake and yours











HIPAA Social Engineering Strong Passwords Mobile Devices Ransomware Phishing The Cloud Environment Telephone scams **USB** Use Public WiFi Paper-based data





Creating Smart Passwords

What is a "smart" password? A smart password strikes a balance between being easyto-remember and hard-to-guess. The best practices below will help you create smart passwords, but remember to refer to your firm's password policy for specific guidance on the number of characters required and any restrictions to keep in mind.

Easy-to-Remember

Step 1 Instead of using a password, create a passphrase. For example, sink or swim or once upon a time. To make it easy to remember, choose a passphrase that has personal meaning for you but isn't something that could be easily guessed by walking into your office.

~--- vou've chosen a passphrase, use letter substitutions to incorporate numbers, capital letters, *** rs into your passphrase. Remember to refer to the requirements specifically



cy-ber at-tack [sahy-ber-uh-tak]

noun
an attempt to damage, disrupt, or gain unauthorized
access to a computer, computer system or electronic
communications, matuurik









THE WALL STREET JOURNAL.

Subscribe Now | Sign In

\$1 FOR 2 MONTHS

World

U.S. Politics Economy

Business Tech Markets Opinion Arts Life Real Estate

Search Q







Stocks Mixed, But on Track for a Winning



Judge Finds Michael Dell, Silver Lake Underpaid for Dell in 2013

Goldman Loans \$75 Million to IPO Hopeful Nutanix









SUBSCRIBE NOW

TO GET MORE GREAT CONTENT.





















MARKETS

Hackers Breach Law Firms, Including Cravath and Weil Gotshal

Investigators explore whether cybercriminals wanted information for insider trading



Thanks for the feedback! Undo

We'll use your feedback to review ads on this

Help us show you better ads by updating your ads settings.



onGuard Daily

OnGuard Members

Cyber Security

View on Site News (281) Tweets (190)

Companies Mentioned Most

• Active Network • Financial Institutions • Share • Insightly Inc

Illinois strengthens, expands scope of personal information protections

June 2nd at 3:47 AM in the Thompson Coburn Publications

... Thompson Coburn's Cybersecurity Department.

eAlert Cybersecurity Implications of Supreme Court's Spokeo Decision Begin to Emerge (June 2016)

In This Alert

Topics

Cyber Security (5)
Data Breach (5)

Information Governance (2)

Risk Management (5)

Security Audit (1)

Security Awareness (4)

Practices

0

0

Data Privacy (5)

HIPAA (5)

HITECH Act (2)

ISO 27001 (3)





















AARP Foundation

GRANTS FIND HELP WAYS TO GIVE

Legal Advocacy

Income » AARP Foundation ElderWatch » Recognize Fraud

lation ElderWatch

financial exploitation.

MORE FROM AARP ▼

1-800-222-4444, option 2

Hacker leaks millions of Hotmail, Gmail, and racker reaks minutes and passwords
Yahoo Mail usernames and passwords

Teach your children to become good digital citi





STRATEGY 2: DESIGN FOR DIY

Building an effective Security Awareness program in-house







Who Should Present?

- CIO / IT Director
- CISO (If they are not human friendly don't force it)
- 1-2 Attorneys (HIPAA / IP / Technology Focused)
- Guest Speaker (FBI or Local Police Liaison)
- Managing Partner Buy-In & Support is Critical
 - They should send the invitation/appointment
 - Stress the importance of attending (mandatory?)
 - Kick off the session & introduce the speakers
- Make the session slightly general (i.e. not too firm specific) = CLE
- Combine with Annual HIPAA Training Requirement



Guest speakers make it interesting and <u>REAL</u> (*they are also Free*)

- FBI or Local Infragard Chapter (plan in advance)
 - They cover cyber terrorism and criminal activity
- Local Police Departments typically have a liaison
 - Active Shooter Discussions are difficult, but necessary for most law firms.
 Develop a physical security plan.
- Other Local Experts can validate what you say but be sure to vet their slides and messaging
- Keep all guest speakers to a strict time-limit or else they could eat up the entire session time.
- Save all audience Q&A until the end (time crunch)

Timing is Important

1x per year (min)
60-90 min (max)
Afternoon (not lunch)



Format?

Live Presentation w/WebEx or Zoom Broadcast

Record for Replay & New Hires (mandatory)



What to Cover?

- (1) PREVENTION
- (2) DETECTION
- (3) RESPONSE
- (4) RECOVERY



Hardware

Software

Data

Procedures

People

Technical Safeguards

Identification and authorization
Encryption
Firewalls
Malware protection
Application design

Data Safeguards

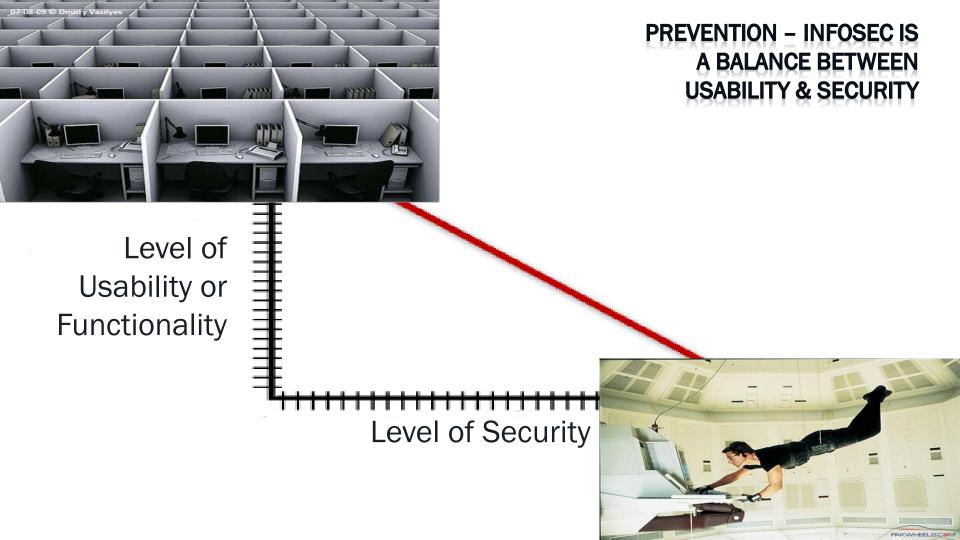
Passwords
Encryption
Backup and
recovery
Physical security

Human Safeguards

Hiring
Training
Education
Procedure design
Administration
Assessment
Compliance
Accountability

Copyright ©2014 Pearson Education





Physical Security

- Office Nameplates & Light Switches have the office number on them & Light Switches have building security contact #
- In an emergency situation, call 911, pull the fire alarm, push/pull the blue panic button in the corridors Help will be on the way
- Even if you can't speak, call 911 leave an open line
- Front Desk has a silent panic button that alerts the building security office and the Milwaukee Police Department
- Run / Hide / Fight https://www.youtube.com/watch?v=5VcSwejU2D0



Vendors/Contractors in Our Space

von Briesen Authorized vendor guest pass	
VALID ONLY ON:	
Date	
Time	

If you don't know someone, ask:

Who are you? Why are you here?

Call Reception or Call Support Services/IT

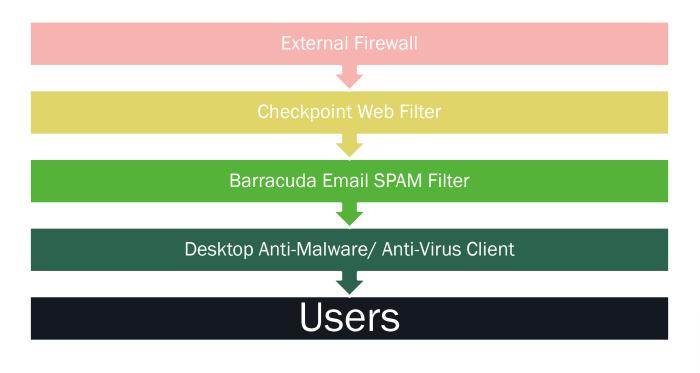
For Backup

Safeguards

- Firewalls / 2FA / Multi-Vendor Approach / Sensors / Logs
- Laptop/Desktop Endpoint Utilities & Scanning
- Mobile Phones/Tablets: Never leave unattended in a public setting
- Don't let kids/family members play games on work devices
- Copier Fleet Swipe Your ID Badge to Use
- Non-employees will not be able to scan/copy
- Secure Print Feature on Copiers & Printers Print Job can be held in a secure state and printed when you arrive at the device

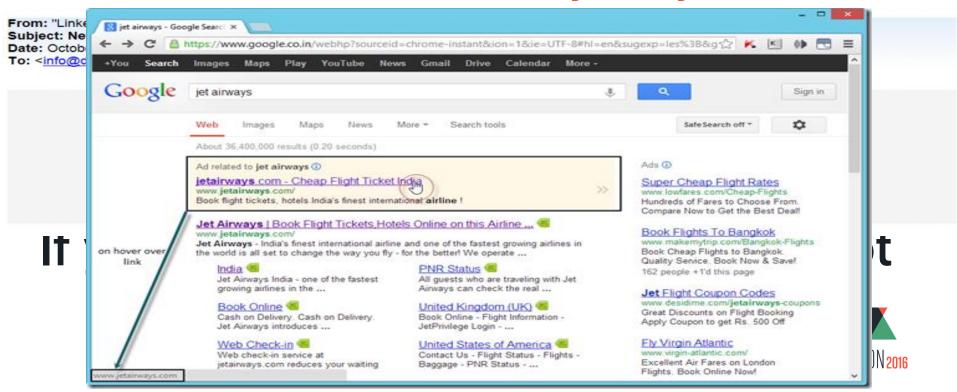
PREVENTION / DETECTION

Multi-Tier Information Security





Browser Links & Links in Email Hover Over to Visually Verify



USB ThumbFlash Drives

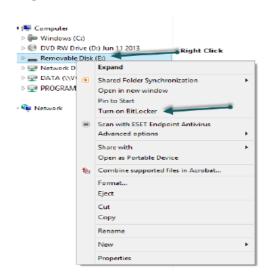


Steps to encrypt your USB Drive:

1. Insert the USB flash drive; click the file folder in the task bar to see the drives on your computer.



2. Right click on the USB flash drive; Click Turn on BitLocker.







Cell Phone Charging Kiosk A Hacker's Dream







ILTACON 2016

Do Not Use Work Email for eCommerce/Shopping/Banking

- Automatically delete all banking/shopping/ecommerce emails without a second thought because your work email is only for work
- Most people use the one email address across all sites identity theft
- Create unique email addresses/accounts for each site
 - bcaraherAmazon@gmail.com --pass: Sh0pping098books!
 - bcaraherBMO@gmail.com -pass: ShOpping098banking!
 - bcaraherGap@gmail.com --pass: Sh0pping098clothes!

If you have multiple online identities, it will be nearly impossible for someone to hack your life!

FBI DOES NOT RECOMMEND LASTPASS or PASSWORD APPS
THEY HAVE BEEN HACKED TOO!

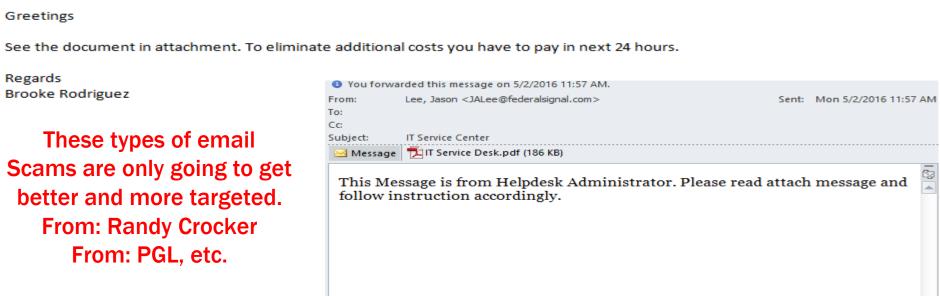
Recent Email Phishing Scams



Regards **Brooke Rodriguez**

These types of email Scams are only going to get better and more targeted. From: Randy Crocker

From: PGL, etc.



!!!SET GOOD POLICIES!!!

EMAIL FROM: HELPDESK@VONBRIESEN.COM WILL NEVER SEND YOU LINKS, DOCUMENTS OR REQUESTS

OR PASSWORD IN AN EMAIL
OR A WEB BASED\ONLINE FORM



Email Scams for Representation

From: Kaga Electronics Co Ltd <kagaelectronics@asia.com>

Sent: Wed 4/23/2014 4:00 PN

o: 📮 Bill Caraher

Subject: litigation case

This is a request for your legal consultation services, I would like your advice regarding possible representation on a litigation case concerning breach of contract/collection matters. I believe that the matter is within your jurisdiction which is why I'm requesting your legal advice. After a careful review of your firms profile as well as your qualification and experience, we are of the opinion that your are qualified to provide the legal services as requested.

Do let me know your position in reviewing this matter, so I may provide any additional information. I look forward to your prompt response.

Regards, Tomohisa Tsukamoto CEO and President Kaga Electronics Co., Ltd 2-8, Sotokanda 3-chome, Chiyoda-ku, Tokyo 101-8629 Japan



von Briesen Website Disclaimer

Disclaimer

The contents of this web site are for informational purposes only and are not intended as legal advice. Materials on this web site are current only as of the date when they were originally published. Legal advice will only be given after an attorney-client relationship has been established pursuant to the firm's policies and procedures, and then only in reference to a client's specific circumstances. You cannot create an attorney-client relationship with us by reviewing information on our web site or by communicating with us by electronic mail or other means. If you are interested in seeking to establish an attorney client relationship with a lawyer in the firm please call that lawyer directly; otherwise you can telephone the practice group leader of the group which handles your type of legal issue. An attorney-client relationship will be established only after we have determined that we have no conflicts of interest that would prevent us from representing you, and you and the firm have reached an agreement setting forth the terms of our representation. If you do not have an attorney-client relationship with us, your communications with us via electronic mail or some other means may not be privileged. Usually we will not enter into an attorney-client relationship that requires the performance of legal services in a jurisdiction where we are not licensed to provide such services. A listing of jurisdictions where our attorneys are licensed to practice law can be found on each individual attorney's biography.



Scammers are Targeting Us

MINIMINITATION ON WHITE PACE OF THIS DOCUMENT HAS A COLOURED BACKGROUND ON WHITE PAPER THE **Xymox Technologies Inc** 9099 W Dean Road Milwaukee, WI 532242852

The Bank of Nova Scotia Station Place D'Armes Montreal, QC H2Y 3E9

59438

10 2015 MMDDYYYY

THREE HUNDRED FIFTY THOUSAND AND 00/100 US DOLLARS***

350,000,00USD

TO THE ORDER OF

von Briesen & Roper, s.c.

411 East Wisconsin Avenue, Suite 1000

Milwaukee, WI 53202

Memo: Star Micronics

THE DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK-HOLD AT ANGLE TO VIEW

"O59438" ::47696"O02: O6223" 11"



RESPONSE

If Your Machine is Acting Weird or You Clicked/Opened Something Bad

- 1) Close the App/Browser
- 2) Close the Lid/Turn Off Your System (Try to quickly save work first)
- 3) Pull Out Your Network Cable / Turn Off WiFi / VPN





RESPONSE

homeoknow.com says:

** YOUR COMPUTER HAS BEEN BLOCKED **

Error # 268D3

Please call us immediately at: 844-576-0492

Please do not ignore this critical alert. If you close this page, your computer access will be disabled to prevent further damage to our network.

Your computer has alerted us that it has been infected with a virus and spyware. The following information is being stolen...

- > Facebook Login
- > Credit Card Details
- > Email Account Login
- > Photos stored on this computer

You must contact us immediately so that our engineers can walk you through the removal process over the phone. Please call us within the next 5 minutes to prevent your computer from being disabled.

Toll Free: 844-576-0492

Prevent this page from creating additional dialogs.

Typo - http://youtuber.com

OΚ

SMS TEXT SCAMS

VOICEMAIL SCAMS





RESPONSE / RECOVERY

Ransomware is a very real threat.

- Notify IT immediately if it happens to you
- Unplug from Network / Turn Off Immediately
- Do not store client data, originals or other irreplaceable work product on your computer



- Don't store personal data (pics/music/docs) on vB PC
- We will wipe computer if infected w/ransomware
- FBI Says: Never pay the ransom





State-sponsored	The Actor of group is employed by the government of a nation-state.
Individual	A specific person or group acting on their own, and not a member of any other Actor threat category.
Hacktivist	An actor that performs attacks in order to draw attention to a cause (such as free speech or human rights), or hinder the support of a cause. If the cause is political, and/or designed to inflict terror, they are instead considered a Cyber terrorist.
Cyber terrorist	Actor carries out an attack designed to cause alarm or panic with ideological or political goals. Alternatively, if the actor is party to a known terrorist organization.
Organized Crime	Groups of criminals that intend to engage in illegal activity, most commonly for monetary profit. Attacks are designed to either extort money from the target, or the actors are funded to carry out an attack.
Identity Unknown	Actor is not identified within the document, either by handle or affiliation.
Organization	Organizations not specifically associated with information security but having some affect over the information security space.
Information Security	Includes organizations or persons from, or whose actions affect, the Information Security sector. These are security researchers, computer scientists, antivirus vendors, CERTs, threat intelligence (non-state-sponsored).
Law	Will include anyone involved in law enforcement (police, police cyber

crime units, courts, judges) as well as attorneys and lawyers.

The Actor or group is employed by the government of a nation-state

State-sponsored

Enforcement/Authority



Threat Actors



Protected Health Information (HIPAA)

Health Insurance Portability and Accountability Act of 1996

The Health Information Technology Economic and Clinical Act (Title XIII of the American Recovery and Reinvestment Act of 2009)

PHI is individually identifiable health information held or transmitted by a covered entity or its business associate, in <u>any form or media</u>, whether electronic, paper, or oral.

- PHI Excludes
 - Employment records maintained by covered entities in their capacities as employers; and
 - Education and other records subject to the Family Educational Rights and Privacy Act



What Makes Information Identifiable?

Name
 Address (geographic subdivisions
 Vehicle identifiers and serial numbers, including license plate numbers

5.

6.

11.

Certificate/license numbers

- smaller than a state) 13. Device identifiers and serial numbers
- 3. Email address 14. URLs
 - Dates (except years) 15. IP addresses

 Birth Date 16. Biometric identifiers, including finger
 - Admission/Discharge Dates
 Tolephone numbers
 - Telephone numbers 17. Full face photographic images and any comparable images
- Social Security Number
 Medical record number
 Health plan beneficiary number
 Account numbers
 Any other unique identifying number, characteristic, or code (not the unique code assigned by the investigator to code the data)

All 18 elements must be removed for data to be "de-identified" Note: Generally, redaction is not sufficient to de-identify PHI

ILTACON 2016

When Do We Have to Comply?

When we create, receive, maintain or transmit PHI when representing:

- A "covered entity"
 - -Health plans
 - Health care providers
 - Health care clearinghouses
 - Hybrid entities (e.g., municipalities)
- A "business associate" or other entity that supports the health care industry





SECURITY AWARENESS: A BLUEPRINT FROM START TO FINISH-ISH

QUESTIONS

