Why CyberSecurity is HR's Business

What You Must Know To Protect Your HR & Other Business Assets



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Today We're Going To Cover

- How an Acceptable Use Policy (AUP) can protect your business
- Gaining End User Compliance
- Security takes a team culture
- Mobile Device Management & the consequences of neglect
- Why HR must lead in data protection



Ultimately We Will Address... How To Avoid Being A Sitting Duck To Cybercriminals & Protect Everything You've Worked So Hard To Achieve





Who is Dan Foote?

- Dan Foote is the CEO of DanTech Services in Anchorage, Alaska & author of *Under Attack*, a #1 best seller
- Started DanTech Services in 2005 to provide personalized services & support for Alaska businesses
- DanTech Services provides a layered approach to data & network security
- Works to keep Computers Under Control!™



Who is Mary Rydesky?

- Mary has one foot in the HR world, the other in IT
- Worked for large corporations & hospitals to integrate policies & practices that focus on getting the job done
- Endorses an HR/IT coalition to train for a safe computer culture
- Holds Masters in Information Science & Business Administration (MBA)
- Pursuing her doctorate in Human Resources & Technology
- As a trainer & consultant, she works with DanTech Services to keep "Computers under Control!™



Questions



SHRM Headlines of 2017

- New Mexico Enacts Data Breach Notification Act (4/26/17)
- HR Beware: 'Tis the Season for W-2 Scams (4/11/2017)
- Boeing Insider Data Breach Serves as Reminder for HR (3/10/17)



The Biggest Danger Is Your Complacency

"Success breeds complacency.
Complacency breeds failure. Only the paranoid survive."

- Andrew Grove, former CEO of Intel





What & Why

- Threats are External
 - And internal
- Relying only on IT leads to...
 - Complacency
 - Neglect
- Personnel decisions are key
 - Hiring
 - Training



A Quick Overview Of The Sophistication & Proliferation Of The Cybercrime Business





What Do You Need to Protect?

- Compensation, payroll, tax
- Personal information (identity theft)
- HIPAA information
- Training / certification records
- Contracts
- Correspondence
- Performance analytics



Data Breach

- A data breach is an incident in which sensitive, protected or confidential data has potentially been viewed, stolen or used by an individual unauthorized to do so
- Data breaches may involve personal health information (PHI), personally identifiable information (PII), trade secrets / intellectual property

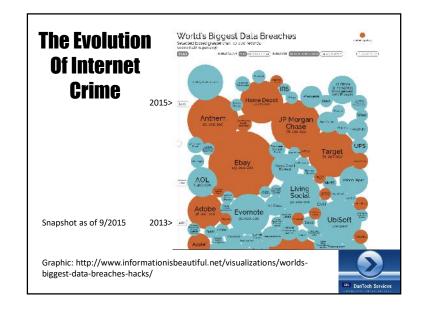


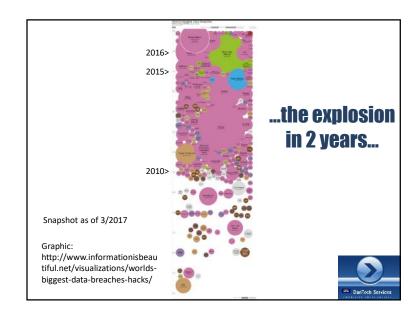


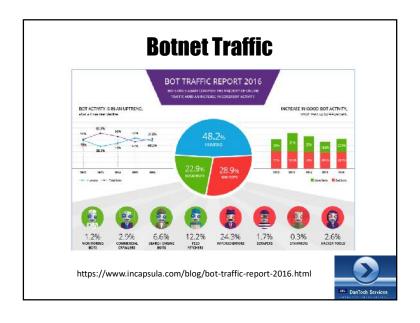
Polymorphic Malware

1 Million NEW Malware Threats Are Being Released Per Day









Weak ID, Credential, & Access Mgmt.

 Data breaches & enabling of attacks can occur because of a lack of scalable identity & access management systems, failure to use multifactor authentication, weak password use, & more





Social Engineering

- 1. Managing social change
- 2. (in the context of information security)

"The use of deception to manipulate individuals into divulging confidential or personal information that may be used for fraudulent purposes."



Account Hijacking

- Methods include
 - phishing
 - fraud
 - exploitation of software vulnerabilities
- Attackers can
 - eavesdrop on activities & transactions
 - then manipulate data
 - return falsified info
 - redirect to illegitimate sites



Phishing & Spear Phishing

phish·ing 'fiSHiNG/

noun

the fraudulent practice of sending emails purporting to be from reputable companies in order to induce individuals to reveal personal information, such as passwords & credit card numbers.

 $spear\ phish\cdot ing$

noun

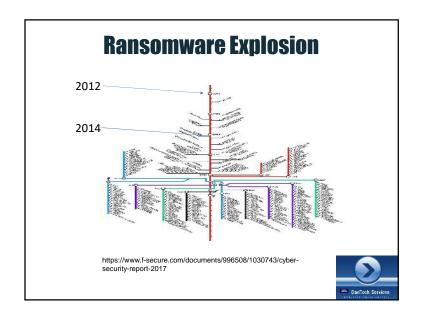
the fraudulent practice of sending emails ostensibly from a known or trusted sender in order to induce targeted individuals to reveal confidential information.

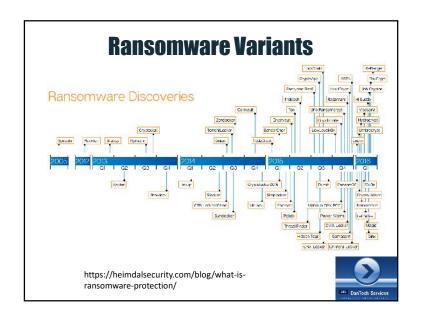
"spear phishing represents a serious threat for every industry"

The Digital Underground's Thriving Black Market

- Dark Web where 90% of the Internet exists
- Malware & hacking kits sold
- BitCoin (BC) is currency of choice
- Stolen data sold (credit cards, hospital records, financial records)
- Virtually untraceable

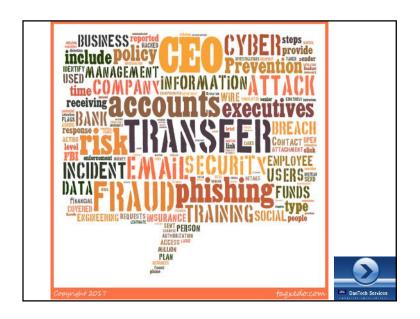












Valuable Data



IoT devices may be capturing your data!

- Compensation, payroll, tax
- Identity
- Entry cards & badges
- Contracts
- HIPAA
- Training records
- Company confidential
- Resumes/recruitment



Data Loss

- Data is completely or partially lost due to
 - malicious attacks
 - corruption
 - accidental or intentional deletion
 - physical catastrophe such as a fire, earthquake or other calamity



Malicious Insiders

- A current or former employee
 - contractor
 - other business partner
- who has or had authorized access to an
 - organization's network,
 - system
 - data
- intentionally exceeds or misuses that access



No Is Not An Answer (Policies & Rules are Not Enough)

- Employees circumvent restrictions
- New tools (phones, tablets, cameras) make your data easy to copy
- IT 'rules' frustrate employees & sometimes interfere with legitimate work
- Lack of time results in accidentally falling for hoaxes



Ineffective Due Diligence

- Rushing to adopt cloud technologies
- Choosing cloud service providers without performing due diligence, thus
- Exposing a myriad of risks
 - commercial
 - financial
 - technical
 - legal
 - compliance





Shared Technology Issues

- Cloud service providers deliver scalable services by
 - sharing infrastructure
 - platforms
 - applications
- One vulnerability or misconfiguration can lead to a compromise



"But We're Small...
Nobody Would Bother To Hack Us, Right?"



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The Number One Security Threat

 Can someone tell me what the #1 Security Threat to your business might be?

Experts: Employees Commit Most
Data Breaches (11/22/2016 - SHRM)



Bottom Line:

Get serious about protecting yourself against cybercrime!

But what does that look like?







Stay Up to Date

- Learn about Big Data
- Data analytics
- Mobile devices
- IoT





Review HR Processes (Vulnerable Moments)

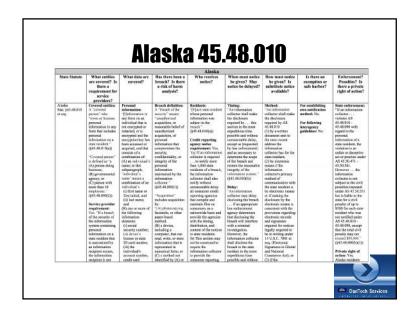
- Recruitment
- Onboarding
- Status changes
- Termination
- IoT / Tools



AUP

- Acceptable Use Policy
 - Guidelines for use of technology in the workplace
 - Promotes computer & online safety
 - Sets clear expectations
 - Removes ambiguities
 - Puts it in writing





Tips For Protection:

- Cancel employee debit cards
 - the #1 way bank accounts get compromised
- Have a dedicated PC for online banking/compensation & DON'T use that PC for accessing any other web sites, e-mail access, social media sites or for downloading files & applications
- Sign up for e-mail alerts for transactions on bank & credit cards
- Require the appropriate signature for any wire transfers
- Use multiple bank accounts to minimize the risk





Cost Effective Solutions

- Keep your Operating System up to date
- Use & keep current your Anti-Virus
- Know what's running on your network
- Back up your data
- Use a password app
- Learn how to read an email or web link
- Use protected DNS
- Be skeptical of unsolicited advice
- Train employees & contractors
- Use professional support
- Cyber insurance



Computers Under Control!

- To remove files that live in your computer: https://www.piriform.com/ccleaner/
 - Creators of CCleaner, Defraggler, Recuva & other tools—all of which have free versions
- To clean up malware, spyware, & adware: https://www.Malwarebytes.com
- Safe software downloads: https://download.cnet.com



Info Lookups

- https://haveibeenpwned.com/
- https://www.knowbe4.com/emailexposure-check/
- http://www.linkexpander.com/
- https://www.bleepingcomputer.com/
- https://www.google.com/



3 Steps To Protecting Your Organization:

- Step 1: Threat Assessment What do you have that needs protection?
- What is the state of your current IT environment?
- Step 2: Action Plan
 What can be done to better protect yourself now?
- Step 3: Ongoing Maintenance
 You definitely don't want to take a "set-it-and-forgetit" approach to security your attackers aren't!



Our Basic Recommendations

- A Layered Approach to Security
 - Network level protection
 - Data level protection
 - Email virus & spam filtering
 - Mobile Device Management
 - Application & patch management
 - Workstation protection
 - User training
 - Effective business policies

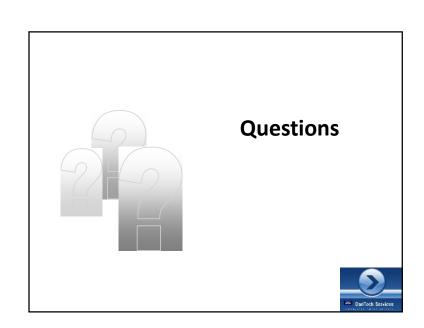


Know Your Profile

We will conduct a "Threat Assessment" at your office where we will:

- Collect a baseline of your information
 - "second opinion"
- Know what's running on your network
 - Often neglected
- Discuss our findings with you
 - In-depth reports
- Provide a roadmap for your business going forward





Thank you!

DanTech Services

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