



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!™





SHRM Headlines of 2017

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



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





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











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.

$\mathsf{spear}\ \mathsf{phish}\mathsf{\cdot}\mathsf{ing}$

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





https://www.f-secure.com/documents/996508/1030743/cybersecurity-report-2017













Valuable Data



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





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







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?





So How Do You Protect Yourself?



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



Alaska 45.48.010

State Statute	What entities are covered? Is there a requirement for service providers?	What data are covered?	Has there been a breach? Is there a risk of harm analysis?	Who receives notice?	When must notice be given? May notice be delayed?	How must notice be given? Is substitute notice available?	Is there an escenation or safe harbor?	Enforcement? Proalties? Is there a private right of action?
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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





