SecureTheVillage: Turning People and Organizations into Cyber Guardians

Securing the Human

September 8, 2018

This SecureTheVillage Webinar brought to you by …

Securing the Human

- Guide: Stan Stahl, PhD
  - Founder, SecureTheVillage
  - President, Citadel Information Group
- Guests
  - Robert Braun, Esq.
    Co-chair of Cybersecurity and Privacy Group
    Jeffer Mangels Butler & Mitchell, LLP
  - Kimberly Pease, CISSP
    Vice President
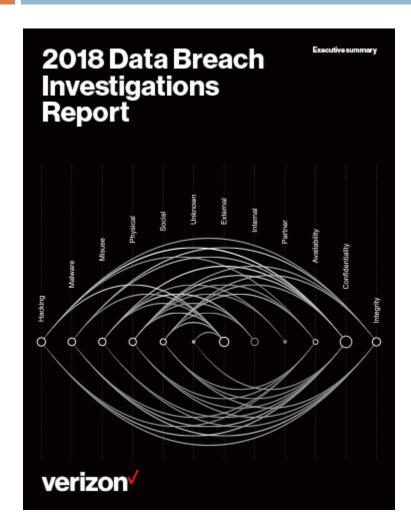   Citadel Information Group

Today's Topics

- Social Engineering: Exploiting Human Weakness
- Humans: First Line of Defense
- Leadership Team: Turning People and Organizations into Cyber Guardians

British Use Social Engineering to Defeat French in Battle of Quebec in 1759

Social Engineering in 2018: More than 90% of Malware is Delivered via Email

58% of malware attack victims are categorized as small businesses. Verizon 2018 Data Breach Investigations Report

In 2017, cyber attacks cost small and medium-sized businesses an average of $2,235,000. Ponemon 2017 State of Cybersecurity in SMBs

60% of small businesses say attacks are becoming more severe and more sophisticated. Ponemon 2017 State of Cybersecurity in SMBs

Cybersecurity is Everyone's Job

A Publication of the National Initiative for Cybersecurity Education Working Group
Sub-Group on Workforce Management
at the National Institute of Standards and Technology

Draft: For Public Comment

Your People are Your Greatest Asset … and Your Greatest Vulnerability

People are our greatest asset

People, though, continue to create the greatest risks.

People are our weakest link when it comes to information security.

When they practice insecure behaviors, they are our greatest vulnerability.

The Leadership Team Must Teach People to Be Vigilant

Cybercriminals know you aren't paying attention

- Cybercriminals study behaviors of employees
- They use you to get around security defenses
- They make you an *unwitting accomplice* to allow them to steal information
- All they need is just one vulnerable careless person
- One behavior can cost thousands and even millions of dollars to a company

The Leadership Team Must Teach People That They Are Targets

What Does This Have to Do With You?

- You have what they want
- You are a target
- You are behind the firewall
- You are their way in

- It Only Takes One!

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The Leadership Team Must Teach People What Cyber Criminals Want

What Do CyberCriminals Want: $$$$$

- Steal Information
  - Social Security Numbers
  - Credit Numbers
  - Bank Account Numbers
  - Health Information
  - Sales / Donor Lists
  - Login Credentials
  - Trade Secrets
  - Intellectual Property
- Deny you the ability to use your own information
  - Ransomware

- Use Your Computer
  - Attack other victims
    - Botnet
    - DDoS
  - Storage
    - stolen software
    - stolen movies
    - child porn

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Information = $$$

The Leadership Team Must Teach People About Cyber Risks and Consequences

- Risks
  - Institutional
  - Individual

  - Confidentiality
  - Integrity
  - Availability

- Consequences
  - Direct Financial Losses
  - Breach Disclosure Costs
  - Legal Fees
  - Fines and Penalties
  - Investigative Costs
  - Identity Theft Monitoring
  - Loss of Intellectual Property
  - Lost User Productivity
  - Missed Opportunities
  - Wasted IT Staff Hours
  - Loss of Competitive Position
  - Loss in Brand Value
  - Wasted Management Time / Stress
  - Organization Out of Business

The Leadership Team Must Teach People That They Are the First Line of Defense

Information Security Matters ... And **YOU** Are the First Line of Defense

The Leadership Team Must Teach Good Cyber Hygiene

- Social Engineering Do's and Don't's
- Good Password Hygiene
- Workplace Behaviors
- Employee workarounds
- Protecting BYOD Devices
- Home WiFi
- Personal Email
- Keeping Home Computers Patched & Updated
- Social Media

CYBER HYGIENE

The Leadership Team: Holding People Accountable

Accountability breeds response-ability.

Stephen Covey

BrainyQuote

The Leadership Team: Turning People & Organizations into Cyber Guardians

ResourceKit: Securing the Human

Resources Areas

Cyber Threats
　Online Bank Fraud
　Ransomware

Senior Leadership

Information Security Management & Governance

The Information Security Management & Leadership Team

Information Security Policies and Standards

Information Security Risk Assessment

Information Classification and Control

Securing the Human

Third-Party Security Management

Managing IT Security

Legal & Related
　Basic Cyber Laws
　Payment Card Industry Data Security Standard (PCI DSS)
　General Data Protection Regulation (GDPR)

Getting Cyber-Prepared: Incident Response & Business Continuity

Managing Cyber-Risk and Insurance

Securing the Human

ResourceKit Articles

External Resources

Cybersecurity is Everyone's Job. A [DRAFT] Publication of the National Initiative for Cybersecurity Education Working Group, Sub-Group on Workforce Management at the National Institute of Standards and Technology.

New NIST Guidebook Says Cybersecurity Is Everyone's Job — Here's Why. SecurityIntelligence by IBM. July 20, 2018.

Building a Cybersecurity Culture Around Layer 8. SecurityIntelligence by IBM. March 6, 2017.

Awareness Training 2017 – *Slides from presentation to SecureTheVillage Pasadena / Glendale Roundtable, February 2017,* Kim Pease, CISSP, Citadel Information Group, Pasadena / Glendale Cybersecurity Roundtable, February 2017

The Human Factor in Information Security – Kim Pease, CISSP, Citadel Information Group & Michael Kemps, Innovative Computing Systems, Law Journal Newsletter, December 2016

Why companies need a cybersecurity training program (6-minute video with transcript), *Robert Braun, Michael Gold; Cybersecurity and Privacy Law Group; SecureTheVillage Leadership Council, Jeffer Mangels Butler & Mitchell*

They Will Click: Cybersecurity and the Human Factor (news article) — *Robert Braun, Michael Gold; Cybersecurity and Privacy Law Group; SecureTheVillage Leadership Council, Jeffer Mangels Butler & Mitchell*

Information Security Awareness Posters to share with staff: (Public Domain) Reminders of security: Post these on walls. Use as screensavers. Be creative. Cultural Adaptation. *Stan Stahl, Citadel Information Group. SecureTheVillage Leadership Council*

https://resourcekit.securethevillage.org/resources/securing-the-human/

Next Webinar: Managing Security of the IT Infrastructure

- Guide: Stan Stahl
  - Founder, SecureTheVillage
  - President, Citadel Information Group
- October 4, 10 AM Pacific
- Registration: SecureTheVillage.org

SecureTheVillage Webinar Series

- Information Security Management Guidance
  - Practical
  - Real-World
  - How-To
  - Actionable

- SecureTheVillage ResourceKit
- First Thursday of month, 10AM Pacific

Information Security Management Webinar Schedule — 2018

February 1   Information Security Management Overview; The Role of Leadership

March 1   The Information Security Management & Leadership Team

April 5   Online Bank Fraud — How To Avoid Being a Victim

May 3   Basics of Cyber-Law

June 7   Information Security Policies and Standards

June 29   Conducting an Information Security Risk Assessment

August 2   Information Classification and Control

September 6   Securing the Human

October 4   Managing Security of the IT Infrastructure

November 1   Getting Cyber-Prepared: Incident Response & Business Continuity

December 6   Third-Party Security Management

January 2019   Managing Cyber-Risk and Insurance

SecureTheVillage: Turning People and Organizations into Cyber Guardians

Monthly Webinar Series: Provides Practical Real-World Actionable How-To Information Security Management Guidance.

Executive Focus Groups: Designed to assist Chief Executives understand how to turn their organization into Cyber-Guardians and create a cyber resilient culture.

Information Security Management and Leadership ResourceKit: A practical guide for implementing an information security management and leadership program in your organization.

Code of Basic IT Security Management Practices: A set of basic IT security management practices that are so basic that a failure to implement them puts the organization at a dangerous and unnecessary risk of a costly information incident.

Community-Based Programs to train the broader community in basic cybersecurity defense practices for themselves and their families, helping them become cyber-aware citizens.

Visit us at: *SecureTheVillage.org*

For More Information …

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FREE Citadel *Cybersecurity News of the Week & Weekend Vulnerability and Patch Report*
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