How to Avoid Being a Victim of Cybercrime

Call in: 1-866-814-9555
Participant code: 1669323050

Bill Blum

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 www.alpinebiz.com

The real problem

“The human factor is truly security’s weakest link.”

The Art of Deception

by

Kevin Mitnick, convicted CyberCriminal

The goal of all Cybersecurity Policies and Procedures:

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The goal of all Cybersecurity Policies and Procedures:

An acceptable balance between:

Functionality, Usability, and Risk.

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The only way to be totally secure is to not connect to anything.

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The Magnitude of the Threat

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  - **#1 on Fortune 500**
  - **74x the size of Walmart**

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  Yes TRILLION! Average cost: $3.8 million (IBM)
- **90% of breaches are caused by human error or carelessness (IBM)**

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The Federal Government

- **The FBI**

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- The FBI

- **The President**

The Federal Government

- The FBI

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- **The Joint Chiefs of Staff**

Cyber Mission Force: 133 teams by 2018

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5 Important Concepts

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Privacy

What do Apple, Google, Microsoft, Facebook, your Internet provider, and the government know about you?

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Privacy

What do Apple, Google, Microsoft, Facebook, your ISP, and the government know about you?

- **EVERYTHING!**
  - **Your IQ**
  - **Personal interests, likes, dislikes**
  - **Browsing history**
  - **Habits**
  - **When you access the Internet, check mail**

The difference between

The difference between

Microsoft Software

Google

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The difference between

Microsoft Software

Hardware

Google

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The difference between

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Google Ad Agency

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Nothing is free

- **What you give up for free technology**

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  - **Free music, videos**
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- **Senior Citizens Beware!**

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- **Everyone and every company is under attack**

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Be Vigilant Always

The old way of thinking

There are only 2 kinds of companies

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Be Vigilant Always

The old way of thinking

There are 2 kinds of companies:

1) Those that know they are under attack

2) Those that don't

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Be Vigilant Always

The *NEW* way of thinking

There are only 2 kinds of companies

1) Those that *have* been breached

2) Those that *will* be breached

(the FBI and Lowell McAdam, Verizon CEO)

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2007 – Self morphing viruses

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- **2009 – Zeus Virus – the man in the browser – NO browser is safe**

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- 2016 – Ukraine Power Grid Hack disclosed
- **2017 – Podesta, Swift, Equifax, many others**

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The perpetrators – Who are they? And why do they do it?

5 Distinct Groups

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The perpetrators – Who are they? And why do they do it?

- Insiders

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The perpetrators – Who are they? And why do they do it?

- Individuals, Lone Wolves

The perpetrators – Who are they? And why do they do it?

- Hacktivists (Anonymous and others)
  - Infamous Estonia hack

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The perpetrators – Who are they? And why do they do it?

- State-sponsored Terrorists
  - China, North Korea, Russia, Iran

The perpetrators – Who are they? And why do they do it?

- Well Organized Criminal Networks

Figure 2: The Cybercrime Infrastructure, and the ISP's that connect it to the Internet

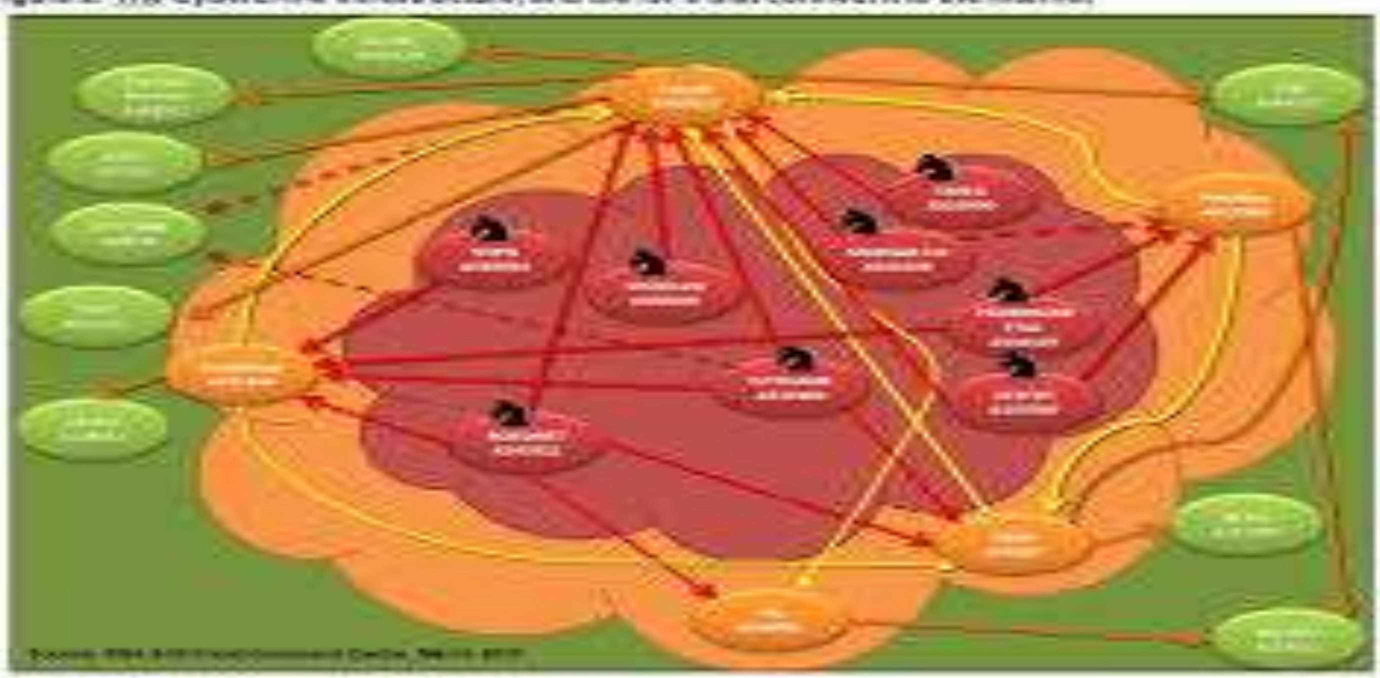

Image Legend:

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Who are the Targets?

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Retailers are attacked most.

3x more than the previous #1 targets, financial institutions

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Tools of the Trade

- Viruses
- Spyware
- Malware

Tools of the Trade

Viruses

Spyware

Malware

- **Hundreds of attempts foiled every week**

Tools of the Trade

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- Hundreds of attempts foiled every week
- Designed to steal or corrupt data and information

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emails, texts, *web sites*

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Infection Methods

Email using Spam

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- **Easy to spoof addresses (impersonate someone else)**

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Infection Methods

Emails and Texts

- Viruses in email attachments

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- **Viruses in texts**

Infection Methods

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- Viruses in texts
- **Links to infected web sites**

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“Drive-by Infections”

1 in 8 web pages are infected.

9500 per day (Google statistic)

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- **Confirm the identity of anyone that sends you a link or attachment**

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The economics of virus/malware/spyware creation

- **Individuals, crime gangs build them for their own use**

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- There are “honorable” hacks – The Chinese vs. US OPM
- **There are new, very dangerous ones: N. Korea vs. Sony**

A word about the future of Cyber Security techniques

- Zero day threats, password hacking, and stealth malware are the problem
- Firewalls and Anti-Virus are useless against them
- The answer? **SIEM utilizing Behavioral Analytics**
- **SIEM: S**ecurity **I**nformation and **E**vent **M**anagement

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Social Networking Sites

- Facebook, Twitter, Google+, Pinterest, thousands of them
- The good, the bad, and the ugly

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- Once it is on the Internet it never goes away!
- **Be careful what you post.**
- **Don't be stupid!**

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Smartphones

- More than 50% of apps take your personal info (Wall Street Journal)

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- **The microphone and camera**

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Wireless Networks

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- **At home: Use encryption.**

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- **If possible, tether your phone or use your own personal cellular data access point (Verizon MiFi, AT&T Velocity)**

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- **What companies are doing to protect themselves – No USB, no DVD**

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- What companies are doing – No USB, no DVD
- **Do not use public USB Charging Stations**

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Social Engineering

- “Psychological manipulation of people into performing actions or divulging confidential information.” – Wikipedia

- **The latest and most effective tool**

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- Some scenarios – “I’m from the help desk, Microsoft, the IRS, your bank…..”
- **How Snowden did it**

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Beware the Wire Transfer!

- Criminals do their research

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- **This has worked MANY times!**

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Physical Security

- Lock the doors!

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- **Lock your computer: CTRL-ALT-DEL – Lock Computer**

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- **Notebook computers with Confidential Data – Use Encryption**

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Logical Security

***The* single most important thing you can do**

Change your passwords regularly!

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Can't remember them? Use Last Pass

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Never e-mail work products to your personal e-mail account

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Meta-data- What it is, what is the risk

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Check your credit card accounts at least monthly

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Check your bank accounts daily, credit cards monthly

Freeze your Credit Reports

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Here's the Good News!

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They like easy 'soft' targets and there are plenty of them.

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Be a HARD target!

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17 Things you can do at work and home to protect yourself and your company.

1. Backup your data! Use encryption with confidential data on laptops
2. Change your passwords, make them strong, unique, private, use Last Pass
3. Keep Anti-Virus, Operating System, Flash & Java up to date
4. Configure Anti-Virus to scan anything plugged in to your computer
5. Lock or logoff your computer
6. Never e-mail work products to your personal email account
7. Never use Flash Drives you “found” or ones given to you. Buy and use brand names only
8. Smartphones: Beware of the apps you use. Delete the ones you don’t use
9. Smartphones: Use biometrics & strong passwords. Wipe before discarding them
10. Never use public USB charging stations- Always use your own charger
11. Beware of phone scams – “I’m from the Help Desk, Microsoft, the IRS, your bank….”
12. Always convert sensitive files to PDF before sending them to strip out metadata
13. Only use secure portals (https://) when transmitting personal information
14. Never use “free” music/video sharing sites
15. Protect your wireless networks with passwords
16. Beware of unsolicited links or attachments. Never open a link or attachment unless you are ABSOLUTELY sure it is safe. Report anything that is suspicious – DO NOT CLICK ON IT!
17. Check your bank accounts daily / credit cards at least monthly, freeze your credit reports

ALPINE BUSINESS SYSTEMS, INC. CELEBRATING 30 YEARS 2017

Questions

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How to Avoid Being a Victim of Cybercrime

OPEIU Identity Protection Benefit

www.opeiulDprotect.com

Questions?

frontdesk@opeiu.org