The Cloud and Cybersecurity What you need to know!



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Today We're Going To Cover:

- A number of serious and growing threats to you that can no longer be ignored or passed off as "That won't happen to me..."
- Why firewalls and antivirus software aren't enough anymore to protect yourself, and what you need to have in place to protect yourself from the storm of trouble brewing.
- How mobile phones and cloud applications are seriously jeopardizing your security and data protection – and what you need to do to protect yourself.
- How to be proactive and some free or low-cost tools to use.

Ultimately We're Going To Cover...

How To Avoid Being A Sitting Duck To Cybercriminals and a Growing Number Of IT-Related Threats And Protect Everything You've Worked So Hard To Achieve



Why I'm Talking To You About This <u>Today</u> 100% of the clients we've taken on as new clients in the past year were **SHOCKED** when we showed them they:

- Were infected with malware and viruses, even though they had antivirus installed and a firewall.
- **Did NOT** have all their data backed up.



And ALL firmly believed "That can *never* happen to *me*!"

The Biggest Danger Is Your Complacency

"Success breeds complacency. **Complacency breeds** failure. Only the paranoid survive." - Andrew Grove, former CEO of Intel



The Biggest Danger Is Your Complacency Please **DO NOT** underestimate the importance of addressing and protecting yourself from this threat.

A Quick Overview Of The Sophistication And Proliferation Of The **Cybercrime Business**

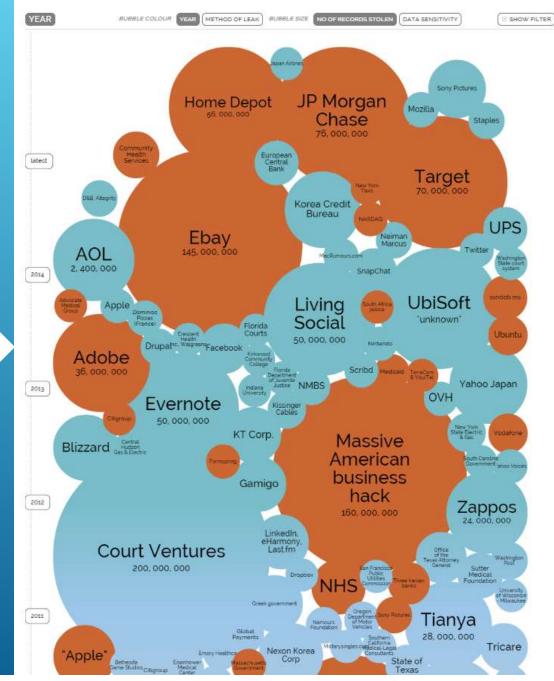


World's Biggest Data Breaches Selected losses greater than 30,000 records



The Evolution Of Crime





80 Million Households And 7 Million Small To Medium Businesses HACKED



The Criminal Digital Underground's Thriving Black Market

- Credit card details sell for: **\$2-\$90**
- iTunes accounts sell for about: **\$8**
- Physical credit cards sell for: \$190
- Card cloners can be bought for: **\$200-\$300**



- Fake ATMs can be bought for: **\$35,000**
- THIS IS A BUSINESS: anyone can easily buy training, tools and services for committing fraud, hacking systems, buying stolen credit cards, setting up fake websites, etc.



Additional Damages And Costs NOT INCLUDED In The Above Number:

- Reputational damage
- Loss of clients
- Class action lawsuits, individual lawsuits
- Legal fees to handle a breach
- Compliance lawsuits (fines for non-compliance)
- Replacement of data
- Downtime, loss of productivity
- Time required to re-enter data and get your internal systems back up and running again

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

- **One in five** small businesses falls victim to cybercrime each year, and that number is GROWING. *(Source: National Cyber Security Alliance)*
- Small businesses **are low-hanging fruit** because they don't believe they are a target, and therefore have very loose or no security systems and protocols in place.
- Half of all cyber-attacks are aimed at SMBs. (Source: Forbes Article, "5 Ways Small Businesses Can Protect Against Cybercrime")

Why Don't You Hear More About It?

- It's extremely embarrassing to admit you've been hacked.
- Many people *don't even know* they've been hacked.
- Horrible PR; do you REALLY want your clients (or patients!) to know their information was accessed?
- The legal ramifications (fines, lawsuits, legal fees) can be significant, so many incidents go unreported.

The 6 Biggest Threats To you Right Now And How To Stop Them





#1: Maiware 82,000 NEW Malware Threats Are Being Released Per Day

Source: PC World

#2: Bank Fraud



FDIC Does NOT Protect You From Bank Fraud, And The Bank Is NOT Responsible For Getting Your Money Back!!!

Don't Let Your Business Pay The Price For Bank Fraud

GUEST POST WRITTEN BY

Ramesh Rajagopal

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Businesses handle most of their banking using online applications or web apps today. Many executives trust in the relationships they have with vendors, including their banks. When problems come up, businesses expect vendors to fix them somehow. Take note: if your online bank accounts are hacked, resulting in the loss of data or funds, don't count on your bank to make everything good again.

Recent court rulings suggest that banks need to only show that they have "reasonable security measures" to protect their business customers. The definition of "reasonable" is still up for discussion, as no U.S. federal standards yet exist for online banking security nor is there a federal data breach law that would cover business bank account breaches. Judges ruled in June that a Missouri escrow firm that lost \$440,000 in a 2010 cyber heist cannot hold its bank liable and worse, the firm is also on the hook to pay the bank's legal fees. The Missouri District Court found that the escrow firm had not followed security precautions suggested by its bank. In an interview, the CEO of the escrow firm stated that his company would probably go out of business as a result.

While banks generally reimburse consumers for any theft related to personal credit cards and accounts, that is not always or even typically the case with business accounts which don't have the same protections. Online attacks against business are growing, yet there's no clear demarcation line for liability, says Mickey Estey, an insurance broker specializing in professional liability related to media and network security, for R-T Specialty LLC. "The trend is incident specific," he says.

Banks Are **Prevailing In** Cybercrime **Cases; PLUS** You Might Have To Pay The **Bank's Legal** Fees If You Sue Them!

Tips For Protecting Yourself:

- Cancel your debit cards; they are the #1 way bank accounts get compromised.
- Have a dedicated PC for online banking and DON'T use that PC for accessing any other websites, e-mail access or social media sites, or for downloading files and applications.
- Sign up for e-mail alerts from your bank whenever a withdrawal over \$100 happens.
- Require YOUR signature for any wire transfers.
- Have your money spread out in multiple accounts to minimize the risk.

Carry CRIME insurance.



#3: Social Media

Threat #1: Security 600,000 Facebook Accounts Are Hacked <u>Every Single DAY</u>.

facebook		
enjoyable, system tha will offer ne Before you required to Click <u>here</u> t If you have	ook user, to make your online experience safer and more Facebook will be implementing a new login will affect all Facebook users. These changes w features and increased account security. are able to use the new login system, you will be update your account. o update your account online now. any questions, reference our New User Guide.	Update your Facebook account Update
Thanks, The Facebo	ok Team	

#4: Ransomware

A writer once asked a literary agent, "What kind of writing pays the most?" Her answer was simple: "Ransom notes."

That's sort of what's happening in the cybercrime world sensitive data in the wrong hands is used to extort money.





Ransomware Is Proliferating

By BRIAN MASTROIANNI / CBS NEWS

Dangerous escalation in ransomware attacks

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Last Updated Feb 20, 2016 10:24 AM EST

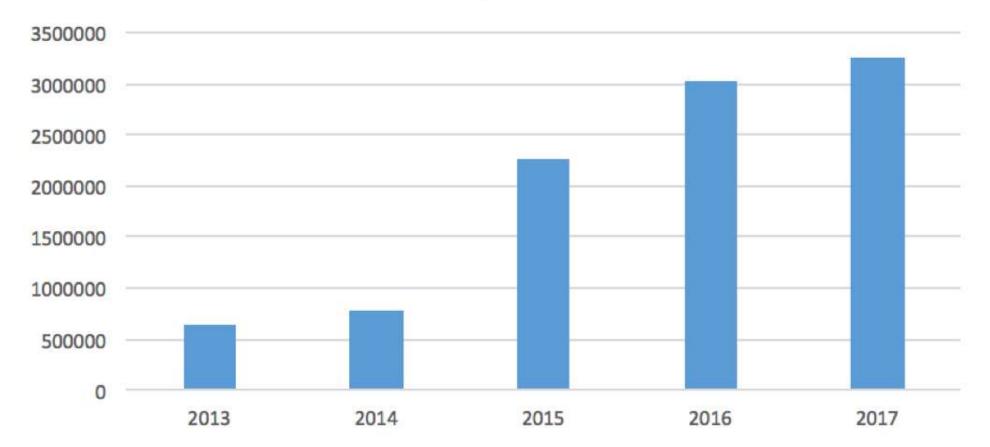
When Hollywood Presbyterian Medical Center revealed that it paid 40 bitcoins -roughly \$17,000 -- in ransom to hackers who essentially held the hospital's computer system hostage, it marked a dangerous escalation in the high stakes surrounding ransomware.

Ransomware is exactly what it sounds like -- malicious software used by hackers to block access to a computer system until a ransom is paid. It has become more common in recent years. The number of ransomware attacks increased from 100,000 in January 2013 to 600,000 by the end of that year, according to a 2014 report by antivirus software maker Symantec.

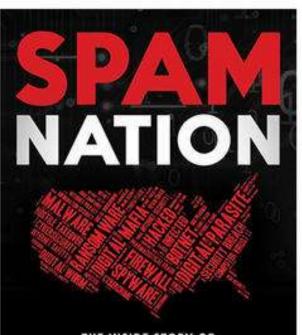
While the threat of ransomware isn't exactly new, high-profile cases like this

#5: Unsecured, Unmonitored Mobile Devices

Android mal samples growth per year



#6: Spam!



ORGANIZED CYBERCRIME-FROM GLOBAL EPIDEMIC TO YOUR FRONT DOOR

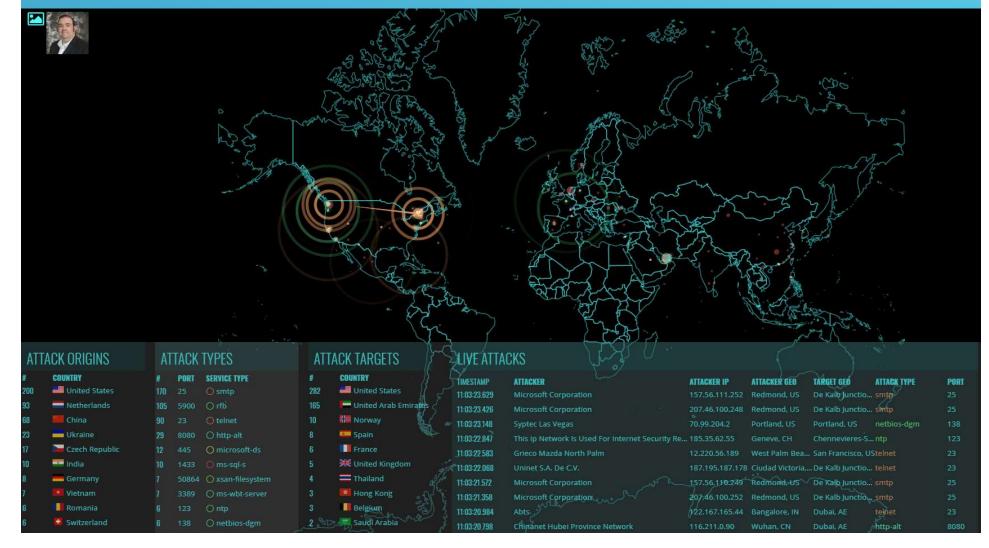


"Spam remains the single biggest driver of big breaches today. If we look at some of the biggest data breaches in recent memory – JPMorgan, Target, RSA Security come to mind – they all began with poisoned e-mail." – Brian Krebs, Spam Nation

https://krebsonsecurity.com/

SO HOW DO YOU PROTECT YOURSELF FROM THIS?

Active attacks at 11:05 am on 11/7/17



How To Protect Yourself:

- Having a firewall and antivirus is NOT sufficient protection anymore; today's sophisticated threats require a layered approach.
- Get EDUCATED on how to spot a phishing e-mail, what websites to avoid, what files you should never download, how to appropriately use e-mail, so you aren't inadvertently opening the door to cybercriminals. In some circumstances, you might want to lock down and limit certain activities on your network to prevent yourself from doing these things by mistake or something else doing them for you.
- You need to install and maintain a professional-grade backup IMPORTANT: If you're using 3rd-party cloud-based applications, it's CRITICAL to get your data backed up on-site or to a completely different place.
- You should have ongoing monitoring and maintenance of computers and network (firewall, software patches, backups, etc.).

Free or cheap tools:

Password Management: Lastpass, Dashlane, Keepass

Antivirus and Anti-malware: Webroot and Malwarebytes

DNS Filter: OpenDNS personal

Firewall Scanner: Shields Up by Gibson Research

Id Theft Protection: LifeLock or ID Agent

Use 2FA with any service that offers it: **Yubico**

