2016 Judicial Family Institute

CyberSecurity at Work, at Home, and on the Road



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"There are those who have been hacked and realize it and those who have been hacked and haven't"

> John Hering, Founder of Lookout Information Security 60 Minutes report April 17, 2016

Your smartphone is technically more powerful than the computing power used to send the Apollo astronauts to the moon and back

WOW!

I thought that only my friends could read my Facebook posts

"Those who say interesting things on Facebook and wonder how the media found out"





- Georgia Department of Labor 1,000 personnel records sent to wrong email address
- <u>Virginia Department of Human Resources</u> 13,000 personnel records sent to wrong email address
- Medical University of South Carolina 7,000 personnel records compromised
- <u>Missouri Dental Office</u> 10,000 patient records compromised
- Adobe 38 million user ID's and passwords compromised

What we used to talk about

Oregon Secretary of State – business/elections database hacked. February 2014

Oregon Department of Employment – 851,300 records compromised. October 2014

Maricopa Community College (MCC) – 2 million records compromised – April 2013 – cost \$26,000,000.00 so far

What a difference two (2) years make...





70 million individuals (partial name, mailing address, phone, email) 40 million credit / debit card





78.8 million individuals (SS#'s, DOB, addresses, medical ID's)



JPMorganChase 76 million individuals (name, address, phone #, email)



Approximately 395 stores impacted



My life is not that exciting - why target me?

Actually, you are exciting to hackers and those who want to disrupt your life.

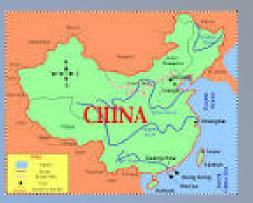


What is the CyberSecurity landscape today?









Nation States - National Crime Rings

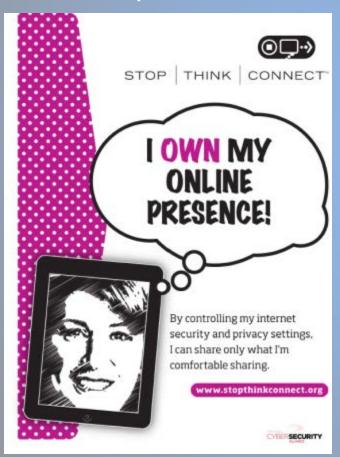




Data aggregators, Phone scammers, Your neighbor

Identity Theft:

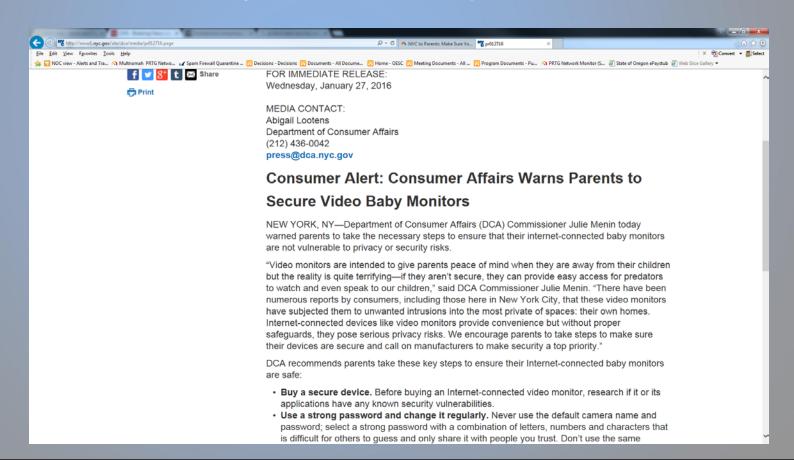
Identity compromised – credit / purchasing impact Government impact – travel, taxes On-line impact – Facebook, Twitter, social media





Home Wi-Fi hacked:

- Network traffic from others flows through your system
- Access to your computers and anything attached to your WiFi system are compromised
- Camera / Alarm systems are compromised



Malware downloaded to your personal computer or phone:

Copy all data/pictures

Monitor/copy email – send email as you

Access credit card information in other applications

Activate camera without your knowledge



Cyber Exploitation:

The non-consensual distribution or publication of intimate photos or videos online.



Using technology to attempt to gain a specific result

- Instances of fake websites,
- Instagram LSU Discussion
- FaceBook, Twitter



Zanie Kasem - 25 yrs old

- Fraudulent use of an email account
- Becoming Facebook friends with family member in an effort to influence outcome
- Cracking cloud service accounts to gain access to photos/information

What can we do?

CyberSecurity - Home Firewall & Password

Firewall & Password





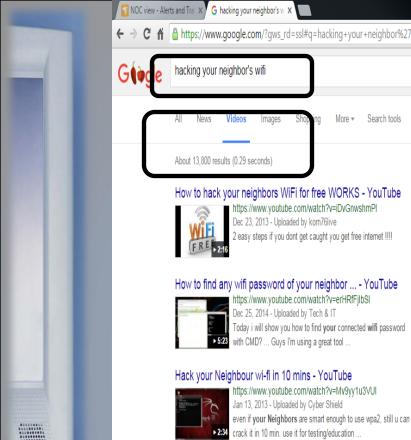












even if your Neighbors are smart enough to use wpa2, still u can

How to Steal Your Neighbors Wifi - YouTube



https://www.youtube.com/watch?v=yWhU eTYIYY Aug 8, 2014 - Uploaded by ThioJoe Highly requested tutorial on how to steal your neighbors wifi so ▶ 2:02 you can use it for yourself! No hacking .

How To Hack Neighbor's WI FI It Works - YouTube

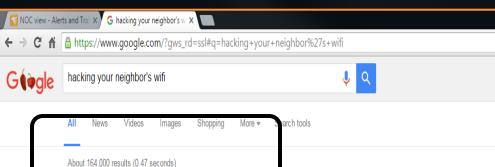


https://www.youtube.com/watch?v=nlJkq9gDOFQ Sep 28, 2011 - Uploaded by Terence Ogarte How To Hack Neighbor's WI FI It Works How to find any wifi password of your neighbor wifi password or ...

how to hack your neighbors internet - YouTube



https://www.youtube.com/watch?v=mwF79vfBhmA Oct 10, 2009 - Uploaded by thecomputerhowtodo I just hacked my wife facebook, its free make sure you follow the steps ... How to scare your neighbors: Name ...



How to Crack Wi-Fi Passwords—For Beginners! « Hacks ...

mods-n-hacks.wonderhowto.com/.../crack-wi-fi-passwords-for-beginners... ▼ Oct 16, 2012 - Cracking those Wi-Fi passwords is your answer to temporary internet access. ... How to Hack WiFi Passwords for Free Wireless Internet on Your PS3 Want to take advantage of your neighbor's super fast Wi-Fi connection? How to Hack WPA WiFi ... - How to Hack Wi-Fi: Cracking ...

How to Hack Wi-Fi Passwords | PCMag.com

www.pcmag.com > ... > Software > Security > Networking ▼ PC Magazine ▼ Mar 6, 2015 - Perhaps you forgot the password on your own network, or don't have neighbors willing to share the Wi-Fi goodness. You could just go to a café ...

How to hack your neighbors WiFi for free WORKS - YouTube



https://www.youtube.com/watch?v=iDvGnwshmPI Dec 23, 2013 - Uploaded by kom76live 2 easy steps if you dont get caught you get free internet !!!!

5 Ways To Hack Into Your Neighbor's Wifi Network - Tips4pc

tips4pc.com > Computer tips and tricks ▼

Nov 9, 2014 - Hacking into your neighbor's wifi network may be easier than you think -and, conversely, your neighbor may think it's easy to hack into your ...

How to steal Wifi - wifi password hacking - Step to step

comorobarwifi.org/how-to-steal-wifi ▼

As the title says, with this tutorial we will know how to steal wifi from your neighbour. .. To hack neighbors wifi, I mean to check the security of our network, we are ...

How I cracked my neighbor's WiFi password without ...

arstechnica.com/security/.../wireless-password-easily-cracke... ▼ Ars Technica ▼ Aug 28, 2012 - How I cracked my neighbor's WiFi password without breaking a sweat It's also true that it's trivial for hackers in your vicinity to capture the ...

How to hack a Wi-Fi network - Quora

https://www.quora.com/How-can-I-hack-a-Wi-Fi-network-1 Quora v This is a catchall question for Wi-Fi hacking, including password bypass or password You may not be creating a security gap, but your renairman, servicemen. When I

Password Complexity

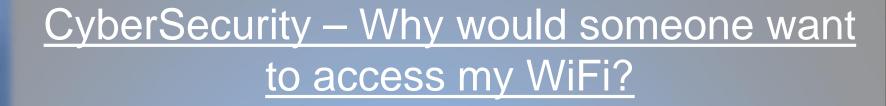
beachboys 2 minutes

thebeachboys 4 weeks

theb3achboys 4 years

theb#achboys 18 years

th#B3achB)Y% - 47,000,000 years



- Turn off your alarm system
- Gain access to your house
- Access your computers data
- Control appliances lights temperature TV
- Use your network to do bad things (steal services)

What can we do?

- Change factory WiFi password to complex password Th#B3achB)Y% (TheBeachBoys)
- Establish a "guest" network even if your family members live with you (allow them to share with trusted friends)



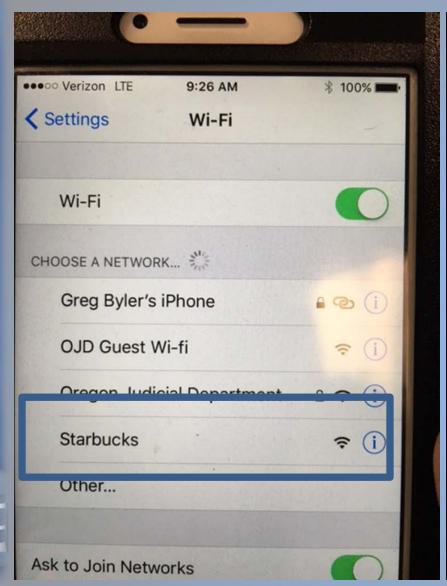
What can we do?

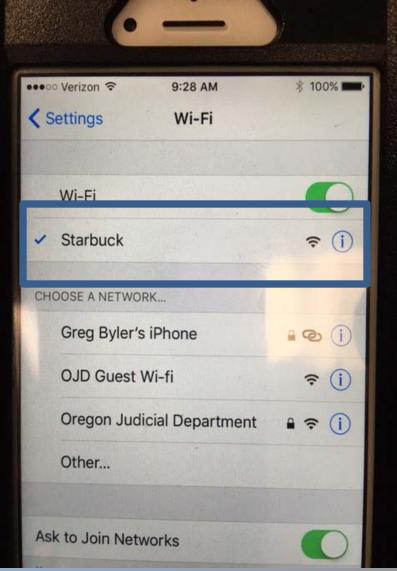
- Rarely let "apps" store your password
- If you have a wireless camera system, have a separate password for that application/system
- Never name your WiFi "Baehr Family Network"





- Be careful when using "free" WiFi or "tethering"
- Never store personal information "SS# DOB" on your mobile device
- Use credit card versus debit card
- Link smaller savings account versus large savings account to debit card







- Always have a password/passcode on mobile device
- If you are going to use the "cloud" to store items, use major company: Apple, Microsoft, Amazon versus smaller vendor or "free" vendor
- I generally do not "tag" my pictures with location / date / time information
- Turn on "find my iPhone" "Android Device Manager" service

CyberSecurity – Away from Home



WITHOUT



WITH

CyberSecurity - Facebook

- Be selective with your "friends"
- Enact privacy settings don't "tag" pictures with date/time
- Log-out when not using
- Limit PII information (such as high school attended, year graduated, where you work, cars you drive)

You may be the target so a specific outcome can be achieved

STOP | THINK | CONNECT

CyberSecurity – Facebook

- Complex password
- Know that "Facebook stalking" is real and it could be one of your "friends" accounts that is compromised
- Announce when you have returned not when leaving for vacation



CyberSecurity – Computer

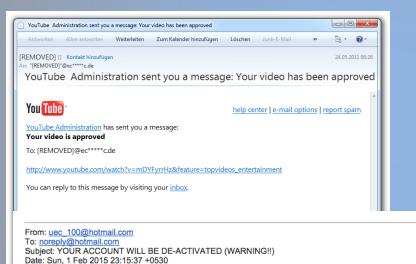
Latest anti-virus – look for status icon

Firewall settings – generally go with factory recommendations

Do not allow someone to take over your computer that calls you or sends you a "popup" request!

CyberSecurity - email

- Never click on a link
- Never open a file
- Always go to a specific location

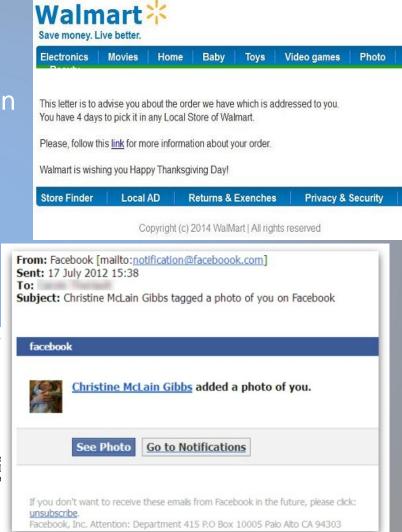




Dear Email User,

This is to inform you that on 4th February, 2015, Microsoft Outlook will discontinue support c and security. If you choose not to update your account on or before 4th February, 2015, you wil read and send emails, and you will no longer have access to many of the latest features for impro conversations, contacts and attachments.

Update Your Account



Take a minute to update your account for a faster, safer and full-featured Microsoft Outlook experience.

Home - Security

- Talk / engage your Neighbors
- Alarm system regular maintenance and testing
- Battery backup (router WiFi)– most systems are reactive, not proactive
- Family communication

CyberSecurity at Work

Cybersecurity processes and procedures will slow you down a bit

Change password regularly

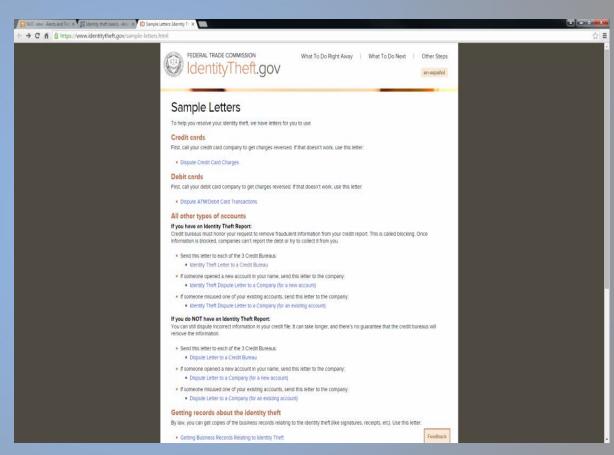
Report suspicious activity / emails

Report suspicious items attached to the network

<u>Identity Monitoring Tools – Have a Plan!</u>

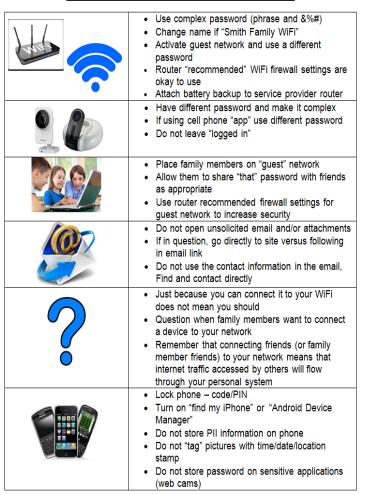
3 credit rating agencies:

- Equifax
- Experian
- TransUnion



Annualcreditreport.com

CyberSecurity - Recommendations and Tips



11133 111 - 2000 0 - 3330 111	Check for battery backup Check connection to company (VOIP or POTS) Regularly check system and panic button Ensure that family members don't share access code
	Exterior lights – automatic timers Companies provide home safe assessments Keep garage door openers hidden Have house look "lived in" when gone
com & com	Enact privacy settings Careful on who you "friend" Ask "friends" regarding their privacy Complex password Watch for "skimmers" Watch surroundings Daylight and in an active area is generally the best time to use an ATM machine
Centity thert	Check credit reports yearly If victim of identity theft – have a plan - notify bank, credit cards, credit agencies, freeze credit accounts
	Updated anti-virus Firewall settings on computer – generally recommended "okay" Do not allow someone to "take over" your personal computer
Coud Strange)	Use major company Ensure that password is "very" complex Look as to where your information is stored (some store overseas)
Wi Fi	Only join known networks Do not join "personal" networks or networks that appear to be spelled funny Know that your information will be accessible while using a public network. Always look for HTTPS:// - no banking should be done on free Wi-Fi

Next???



Flagstaff 2017?



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