

2017 Council of Chief Judges of the State Courts of Appeal

Keeping the Lead in CyberSecurity



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October 2017

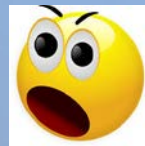
“There are those who have been hacked and realize it and those who have been hacked and haven’t”

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

“Cyber-Criminals move at the speed of light, but government moves at the speed of law”

Adam Palmer,
FireEye

“WOW! I thought only my friends could read my Facebook posts

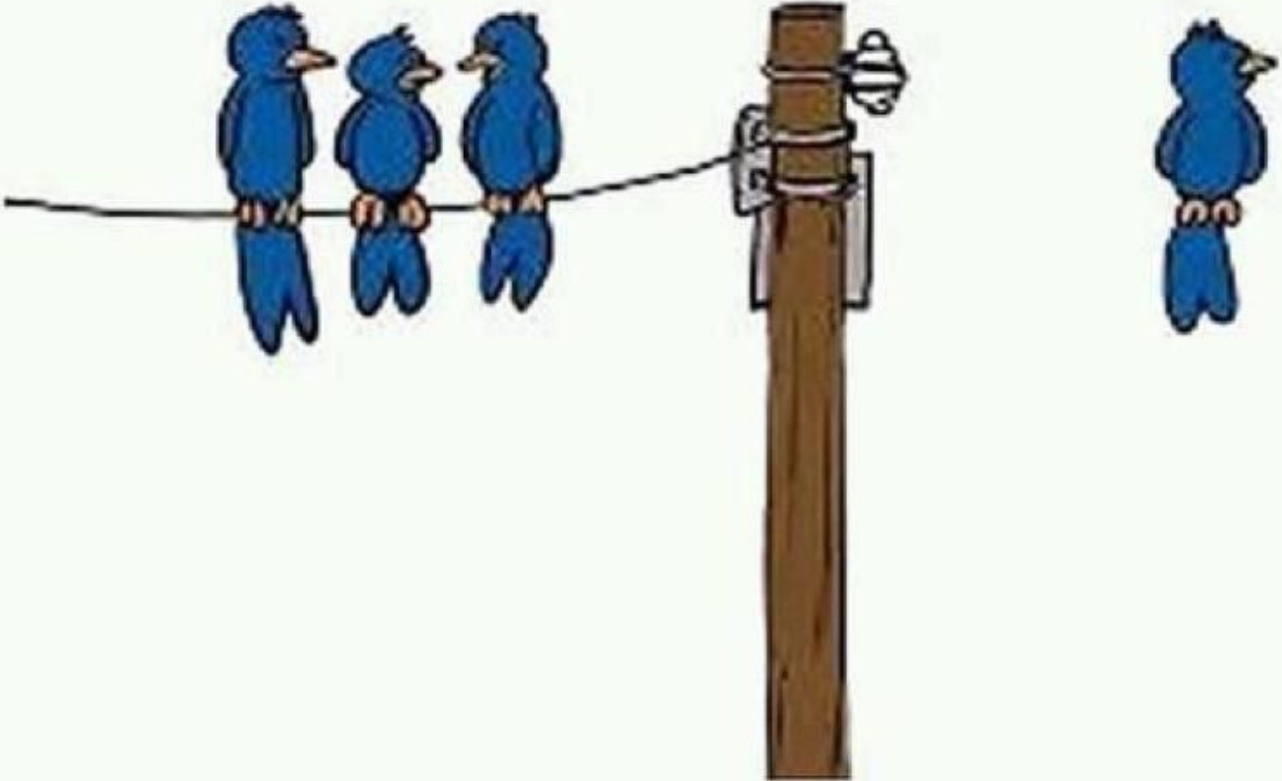


Those who say interesting things
on Facebook and wonder how
the media found out



Geez Grandma! It's not that hard! Go into Settings... select Wi-Fi... Select it! Tap it with your finger... OMG any finger!! Grrrrr

He uses WiFi



What we used to talk about

- Georgia Department of Labor – 1,000 personnel records sent to wrong email address
- Virginia Department of Human Resources – 13,000 personnel records sent to wrong email address
- 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

56 million credit / debit cards



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



143 million individuals (SS#, name, address, phone #, CC#'s)

Yahoo – 1 Billion Users Hacked



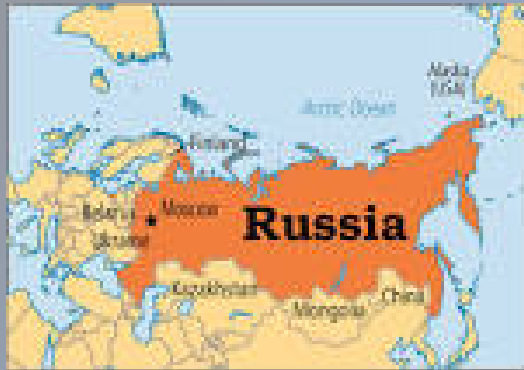
Ransomware attack – no data loss

Why hack the courts?

Everything is public, we have no money, we're just not that exciting!

Actually, you are exciting to hackers and those who want to disrupt the court. Or just because it is a challenge!





Nation States – National Crime Rings



Data aggregators, Disrupters, Ransomware

This is how to be popular in Cybersecurity!

Password cannot contain any dictionary words and it must meet the following criteria:

- ✓ Password cannot contain any dictionary words
- ✓ At least 1 uppercase letter AND at least 1 lowercase letter AND at least 1 special character: ! # \$ %
- ✓ At least 6 characters
- ✓ Password cannot contain any spaces
- ✓ Password cannot contain any common strings such as a sequential series of numbers (2468)



Old Password:

New Password:

Confirm New Password:

Continue

Cancel

Quick Start Guide to CyberSecurity Recommendations and Tips

	Be the leader when it comes to CyberSecurity. Make it a priority and hold everyone accountable.
	Identify those responsible and determine capabilities, timelines, job descriptions, and funding. Look to other government agencies/private contractors to augment existing resources.
	Communicate often regarding the need to remain vigilant in an ever changing CyberSecurity landscape. Establish and/or annually review data security policies and procedures.
	Establish a yearly judge/employee training program regarding CyberSecurity.
	Prepare a CyberSecurity action plan. Test at least yearly. The plan at a minimum should have a chain of command, recommended action steps, a communication component, and other government (vendors) identified with contact information.
	Ensure that system firewall settings are configured and adapted to keep your systems secure. Review email security settings filtering malicious emails/attachments.
	Have a software patch schedule for servers, storage, software, desktops, and hardware. Backup systems on a very frequent basis and have an off-site storage process.
	Enhance password complexity and length (recommendation is 15 characters with complexity), recommend changing every six (6) months. Recommend screen lockouts at 15-30 minutes.

	Encrypt mobile devices. Encryption is the only way to ensure (as best as possible) that a stolen mobile device is not a risk to the court.
	Run anti-virus scans on all desktop, laptops, and servers. Ensure that anti-virus software is updated on a regular basis.
	Plan an external system penetration test. Yearly is recommended. Prepare an action plan once the results of the penetration test are known.
	Secure your wireless network. Do you offer "free or guest" Wi-Fi? If so, ensure that the "free or guest" Wi-Fi is segregated from your production systems and/or at a minimum capped at a certain speed to prevent production disruptions.
	Be prepared to invest time and resources in technology staff training (on-site, video, and off-site) to keep up with CyberSecurity trends and preventative actions that can be taken.
	CyberSecurity will slow you down a bit – plan on it. Ransomware, successful malicious email attacks, and systems that are compromised are generally preventable.

What can court leadership do?

- Be the leader when it comes to CyberSecurity. Make it a priority and hold everyone accountable.
- Identify court cybersecurity leaders and determine capabilities. Look to other government agencies/private contractors to augment existing resources.
- Communicate often regarding the need to remain vigilant. Establish and/or annually review data security policies and procedures.
- Establish a yearly judge/employee training program regarding CyberSecurity.

What can court leadership do?

- Prepare a CyberSecurity action plan.
- Ensure that system firewall settings are configured and adapted to keep your systems secure – review frequently. Review email security settings filtering malicious emails/attachments.
- Have a software patch schedule for servers, storage, software, desktops, and hardware. Backup systems on a very frequent basis and have an off-site storage process.
- Enhance password complexity and length (recommendation is minimum 15 characters – string of words with complexity), recommend changing every six (6) months.

What can court leadership do?

- Encrypt mobile devices.
- Run anti-virus scans on all desktop, laptops, and servers. Ensure that anti-virus software is updated on a regular basis.
- Plan an external system penetration test. Yearly is recommended.
- Do you offer “free or guest” Wi-Fi? If so, ensure that the “free or guest” Wi-Fi is not connected to your production system.
- Be prepared to invest time, resources, and funding in technology staff training.

Information Security Costs?

- Training can run about \$10-15,000 per year per person (CISSP, CISM, CEH)
- Software can run about \$400,000 (Firewall, intrusion (endpoint) detection, external penetration testing, virus detection)
- Backup systems \$150,000 to \$600,000 (tape, off-site)
- Staff \$\$\$

For Comparison

- Cell Phone cost 1979 - \$0
- Internet cost 1979 - \$0
- Cable TV cost 1979 - \$0
- Telephone cost 1979 - \$20.00 per month

Google hacking your neighbor's wifi

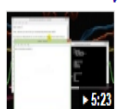
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How to hack your neighbors WiFi for free WORKS - YouTube



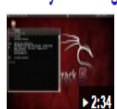
https://www.youtube.com/watch?v=iDvGnwsHmPI
Dec 23, 2013 - Uploaded by kom76live
2 easy steps if you dont get caught you get free internet !!!!

How to find any wifi password of your neighbor ... - YouTube



https://www.youtube.com/watch?v=erHRfJlbSI
Dec 25, 2014 - Uploaded by Tech & IT
Today i will show you how to find your connected wifi password with CMD? ... Guys I'm using a great tool ...

Hack your Neighbour wi-fi in 10 mins - YouTube



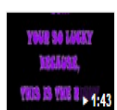
https://www.youtube.com/watch?v=Mv9yy1u3VUI
Jan 13, 2013 - Uploaded by Cyber Shield
even if your Neighbors are smart enough to use wpa2, still u can crack it in 10 min. use it for testing/education ...

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 you can use it for yourself! No hacking ...

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



https://www.youtube.com/watch?v=nLkq9gDOFQ
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 ...

Google hacking your neighbor's wifi

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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

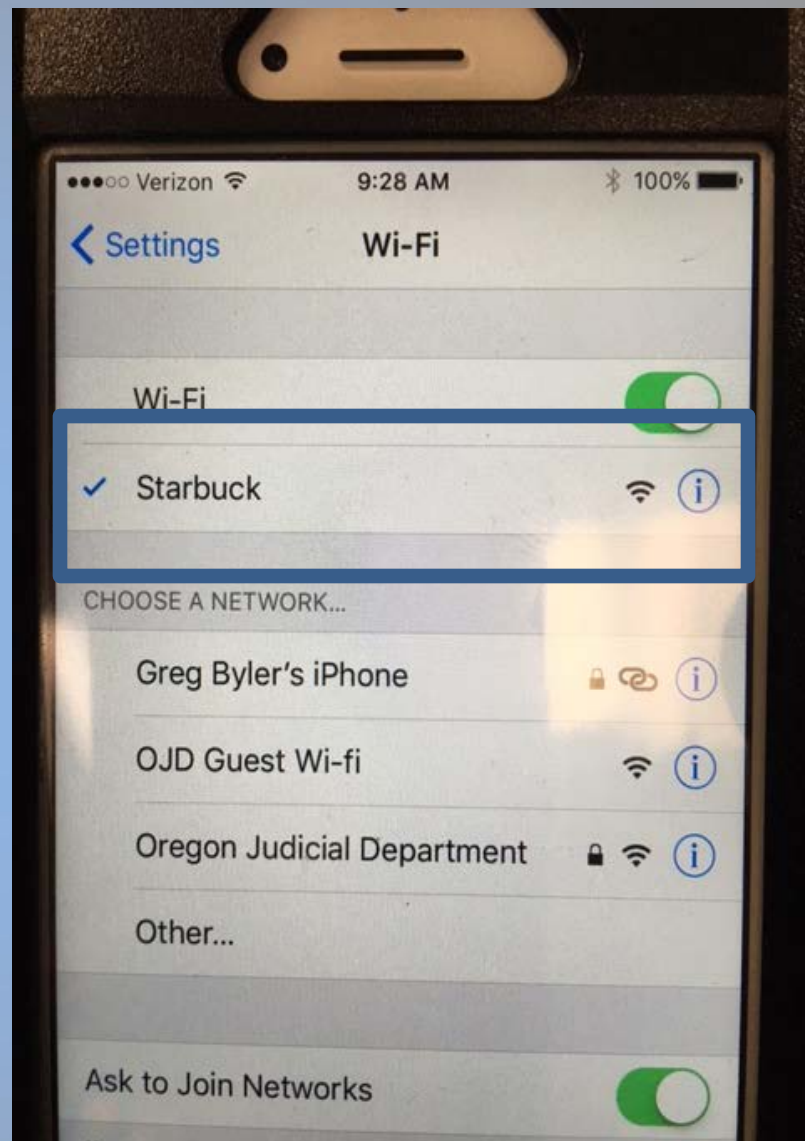
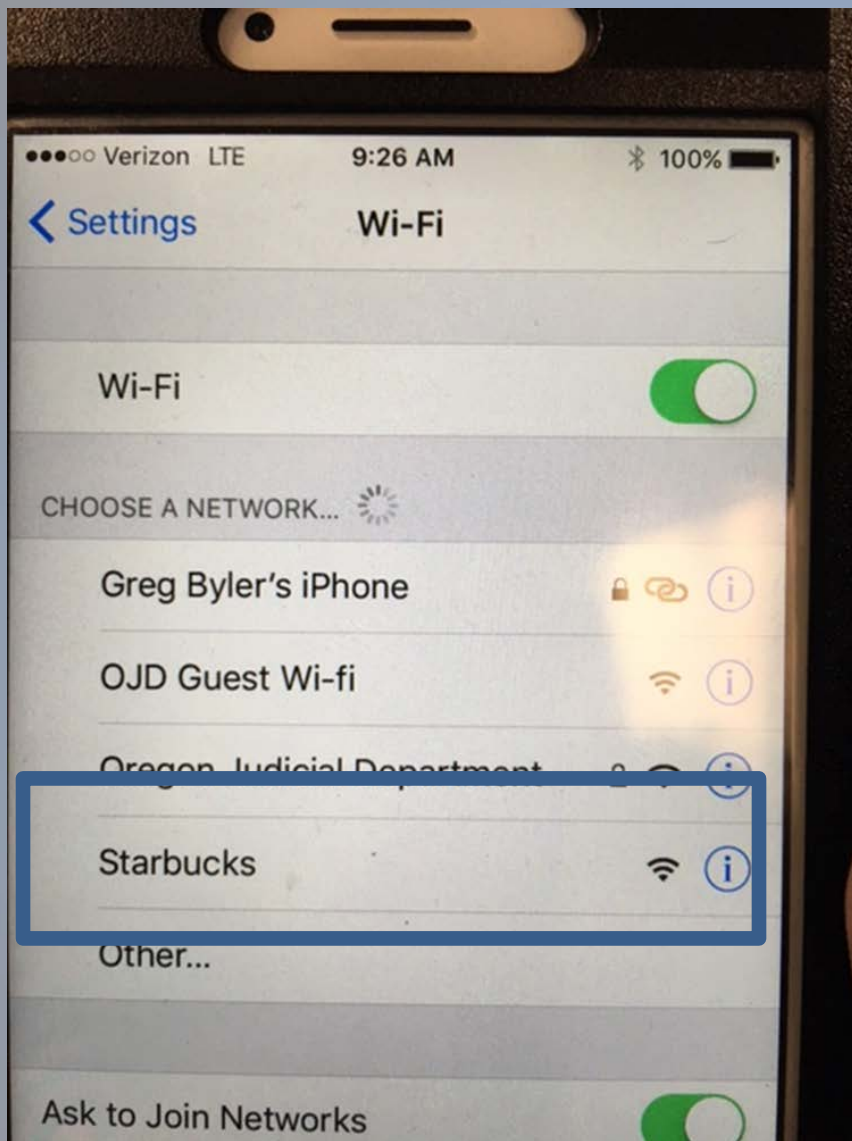
comorobarwifi.org/how-to-steal-wifi >
As the title says, with this tutorial we will know how to steal wifi from your neighbour. ... To hack neighbors wifi, I mean to check the security of our network, we are ...

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

arstechnica.com/security/.../wireless-password-easily-crack... > 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 >
This is a catchall question for Wi-Fi hacking, including password bypass or password You may not be creating a security gap, but your repairman servicemen When I



Next???





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